DEPARTMENT OF CITY PLANNING

APPEAL REPORT

City Planning Commission

Date: July 11, 2019

Time: After 8:30 a.m.*

Place: Los Angeles City Council Chamber, Room 340
200 North Spring Street
Los Angeles, CA 90012

Public Hearing: Required
Appeal Status: Not further appealable
Expiration Date: August 14, 2019

Case No.: DIR-2018-3691-TOC-SPP-WDI-1A
CEQA No.: ENV-2018-3692-SE
Incidental Cases: None
Related Cases: None
Council No.: 1
Plan Area: Westlake
Specific Plan: Central City West – Subarea North (Temple/Beaudry Neighborhood District)
Certified NC: Echo Park
GPLU: High Medium Residential
Zone: CW [R4(CW)-75/3-O]

Applicant: Ted Handel, Firmin Court, L.P.
Representative: Katherine Casey, Craig Lawson & Co., LLC
Appellant: Patricia Mendoza
Representative: None

PROJECT LOCATION: 418, 426, 430 North Firmin Street, legally described as Lot FR 1, Block 26, Park Tract; Lots FR 7 & FR 8, Byram's Subdivision of a Part of Lot 1, Block 39 of Hancock's Survey Tract (see attached map).

PROPOSED PROJECT: Demolition of an single-family residence and detached garage located at 418 North Firmin Street; relocation of a single-family residence located at 430 North Firmin Street to a vacant parcel located at 115 East Avenue 35; and construction, use and maintenance of a seven-story, multi-family residential building with a total of 64 dwelling units consisting of 45 permanent supportive housing units reserved for Extremely Low Income Households and 19 units reserved for Low Income Households. One (1) of 19 units reserved for Low Income Households will be a manager's unit. The proposed building will have a maximum building height of 86 feet, as measured from grade to the roof ridge, and 49,099 square feet of floor area with a 4.17:1 FAR including 2,200 square feet of permanent supportive housing supportive service areas. The project proposes 10 non-required automobile parking spaces and 51 long-term bicycle parking spaces within a semi-subterranean garage, and five (5) short-term bicycle parking spaces at the southwest corner of the subject site. The project will provide 5,307 square feet of usable open space within the front yard setback, community rooms, a court yard, and a roof deck.

REQUEST: An appeal of the following Director of Planning's Determination:

1. **Determine**, based on the whole of the administrative record, that the project is statutorily exempt from California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Sections 15192 and 15194;

2. **Approve with Conditions,** a **Transit Oriented Communities (TOC) Affordable Housing Incentive Program Compliance Review,** pursuant to the Los Angeles Municipal Code (LAMC) Section 12.22 A.31, for a qualifying Tier 3 project, totaling 64 dwelling units, reserving 45 units for Extremely Low Income Household occupancy and 19 units for Low Income Household occupancy for a period of 55 years, with the following Base and Additional Incentives:

   Base Incentives

   a. **Residential Density.** A 45-percent increase in the maximum density to permit a total of 64 dwelling units in lieu of 44 units as otherwise permitted by Section 6.F.1 of the Central City West Specific Plan;

   b. **Floor Area Ratio (FAR).** A 45-percent increase in the maximum FAR to permit 4.35:1 in lieu of 3:1 as otherwise permitted by Section 6.C of the Central City West Specific Plan;

   c. **Parking.** No required vehicular parking for all residential units;

   Additional Incentives

   d. **Northerly Side Yard and Rear Yard.** A 30-percent reduction in the minimum northerly side yard setback to permit seven (7) feet in lieu of 10 feet as otherwise required by Section 6.F.1 of the Central City West Specific Plan, and a 30-percent reduction in the minimum rear yard setback to permit 13 feet, 4 inches in lieu of 19 feet as otherwise required by Section 6.F.1 of the Central City West Specific Plan;

   e. **Usable Open Space.** A 25-percent reduction in the minimum usable open space to permit 5,307 square feet in lieu of 7,075 square feet as otherwise required by LAMC Section 12.21 G.2;

   f. **Common Open Space.** A 17.1-percent reduction in the minimum common open space to permit 5,306 square feet in lieu of 6,400 square feet as otherwise required by Section C.1(a) of Appendix D of the Central City West Specific Plan;

   g. **Height.** An 11-foot increase in the maximum building height to permit 86 feet in lieu of 75 feet as otherwise required by Section 6.C of the Central City West Specific Plan;

3. **Approve with Conditions** a **Project Permit Compliance Review**, pursuant to LAMC Section 11.5.7 C and the Central City West Specific Plan, Ordinance No. 173,455, for the construction of a seven-story multi-family residential building consisting of 64 dwelling units; and

4. **Dismiss** a request for a **Waiver of Dedication and Improvement**, pursuant to LAMC Section 12.37 I.3, to waive a seven (7)-foot dedication and sidewalk improvement to complete a 25-foot half right-of-way on the east side of Firmin Street adjoining the project site's street frontage, inasmuch as Firmin Street is designated a Local Street – Limited and the project is not subject to dedication and improvement requirements per LAMC Section 12.37 A.

RECOMMENDATION:

1. **Deny** the appeal;

2. **Determine**, based on the whole of the administrative record, that the project is statutorily exempt from California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Sections 15192 and 15194, as found in the Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194 and the Technical Modifications Memorandum dated June 25, 2019;

3. **Sustain** the Director of Planning's Determination as follows:

   a. **Approve with Conditions,** a **Transit Oriented Communities (TOC) Affordable Housing Incentive Program Compliance Review,** pursuant to the Los Angeles Municipal Code (LAMC) Section 12.22 A.31, for a qualifying Tier 3 project, totaling 64 dwelling units, reserving 45 units for Extremely Low Income Household occupancy and 19 units for Low Income Household occupancy for a period of 55 years, with the following Base and Additional Incentives:

      Base Incentives

      i. **Residential Density.** A 45-percent increase in the maximum density to permit a total of 64 dwelling units in lieu of 44 units as otherwise permitted by Section 6.F.1 of the Central City West Specific Plan;

      ii. **Floor Area Ratio (FAR).** A 45-percent increase in the maximum FAR to permit 4.35:1 in lieu of 3:1 as otherwise permitted by Section 6.C of the Central City West Specific Plan;

      iii. **Parking.** No required vehicular parking for all residential units;

      Additional Incentives

      iv. **Northerly Side Yard and Rear Yard.** A 30-percent reduction in the minimum northerly side yard setback to permit seven (7) feet in lieu of 10 feet as otherwise required by Section 6.F.1 of the Central City West Specific Plan, and a 30-percent reduction in the minimum rear yard setback to permit 13 feet, 4 inches in lieu of 19 feet as otherwise required by Section 6.F.1 of the Central City West Specific Plan;

      v. **Usable Open Space.** A 25-percent reduction in the minimum usable open space to permit 5,307 square feet in lieu of 7,075 square feet as otherwise required by LAMC Section 12.21 G.2;

vi. **Common Open Space.** A 17.1-percent reduction in the minimum common open space to permit 5,306 square feet in lieu of 6,400 square feet as otherwise required by Section C.1(a) of Appendix D of the Central City West Specific Plan;

vii. **Height.** An 11-foot increase in the maximum building height to permit 86 feet in lieu of 75 feet as otherwise required by Section 6.C of the Central City West Specific Plan;

b. **Approve with Conditions** a **Project Permit Compliance Review**, pursuant to LAMC Section 11.5.7 C and the Central City West Specific Plan, Ordinance No. 173,455, for the construction of a seven-story multi-family residential building consisting of 64 dwelling units; a

c. **Dismiss** a request for a **Waiver of Dedication and Improvement**, pursuant to LAMC Section 12.37 I.3, to waive a seven (7)-foot dedication and sidewalk improvement to complete a 25-foot half right-of-way on the east side of Firmin Street adjoining the project site's street frontage, inasmuch as Firmin Street is designated a Local Street – Limited and the project is not subject to dedication and improvement requirements per LAMC Section 12.37 A; and

4. **Adopt** the Director of Planning's Conditions of Approval and Findings, as modified in the Technical Modifications Memorandum dated June 25, 2019.

VINCENT P. BERTONI, AICP
Director of Planning

Jane Choi, AICP, Senior City Planner

Kevin Golden, City Planner

Nuri Cho, City Planning Associate
(213) 978-1177

ADVICE TO PUBLIC: *The exact time this report will be considered during the meeting is uncertain since there may be several other items on the agenda. Written communications may be mailed to the *Central Los Angeles Area Planning Commission Secretariat, 200 North Spring Street, Room 272, Los Angeles, CA 90012* (Phone No.213-978-1300). While all written communications are given to the Commission for consideration, the initial packets are sent to the week prior to the Commission's meeting date. If you challenge these agenda items in court, you may be limited to raising only those issues you or someone else raised at the public hearing agendized herein, or in written correspondence on these matters delivered to this agency at or prior to the public hearing. As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability, and upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. Sign language interpreters, assistive listening devices, or other auxiliary aids and/or other services may be provided upon request. To ensure availability of services, please make your request no later than three working days (72 hours) prior to the meeting by calling the Commission Secretariat at (213) 978-1300.

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B. Project Plans

C. Radius, Vicinity and ZIMAS Maps

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E. a. Technical Modifications Memorandum
b. Clarification Letter by Ganddini Group

F. Director's Determination

G. Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194 and Appendices[1]

H. Central City West Specific Plan North Subarea Map

[1] An electronic copy of the Appendices is available via Hightail and the CPC meeting agenda. A hard copy of the Appendices are available in the case file, Case No. ENV-2018-3692-SE.

APPEAL REPORT

PROJECT SUMMARY

The proposed project involves the demolition of an existing single-family residence and detached garage located at 418 North Firmin Street, and the construction, use and maintenance of a seven-story, multi-family residential building with a total of 64 dwelling units consisting of 45 permanent supportive housing units reserved for Extremely Low Income Households and 19 units reserved for Low Income Households (Exhibit B). One (1) of 19 units reserved for Low Income Households will be a manager's unit. The unit mix will consist of 28 studio, 17 one-bedroom, 15 two-bedroom, and four (4) three-bedroom units.

The building will have a maximum building height of 86 feet, as measured from grade to the roof ridge, and 49,099 square feet of floor area with a 4.17:1 FAR. The project proposes 10 non-required automobile parking spaces and 51 long-term bicycle parking spaces within a semi-subterranean garage, and five (5) short-term bicycle parking spaces at the southwest corner of the subject site. The ingress and egress driveway to the garage is located on Firmin Street near the center of the building.

The project will provide 5,307 square feet of usable open space, including 1,163 square feet of open space within the front yard setback (permitted by the Specific Plan), a 600-square-foot community room at the second floor level, a 726-square-foot community room and a 2,291-square-foot court yard at the third floor level, and 527 square feet of roof deck. The project will also provide a total of 64 trees, including 35 trees on-site and 29 trees off-site.

The applicant is required to relocate the existing single-family residence currently located at 430 North Firmin Street to a vacant parcel located at 115 East Avenue 35 to reduce potentially significant impacts to a historical resource to a less-than-significant level per the mitigation measure included as part of Statutory Exemption No. ENV-2018-3692-SE pursuant to California Environmental Quality Act (CEQA) Guidelines Sections 15192 and 15194.

BACKGROUND

Site Characteristics and Existing Buildings and Structures

The project site consists of three (3) contiguous parcels with approximately 250 feet of street frontage along the east side of North Firmin Street and varying depths of approximately 104 feet to 131 feet, for a total lot size of 17,330 square feet (Exhibit C). The project site has ascending slopes to the south and descending slopes to the north with an elevation change of approximately 20 feet.

The project site is currently improved with a single-family residence and a detached garage built in 1890 (418 North Firmin Street), a vacant lot (426 North Firmin Street), and a single-family residence and a detached garage built in 1895 (430 North Firmin Street) (Exhibit D). The single-family residence located at 430 North Firmin Street is listed as a potentially historic resource in Appendix A of the Specific Plan. In addition, the Historic Resources Assessment Report, dated October 2018 and prepared by Sapphos Environmental, Inc. for the project determined that the primary residence located at 430 North Firmin Street constitutes a historical resource as defined in Section 15064.5(a) of the CEQA Guidelines, while the single-family residence and detached garage at 418 North Firmin Street and the detached garage at 430 North Firmin Street are not considered historical resources (Appendix F of Exhibit G).

There are four (4) trees on the project site, which will be removed as part of the project. Per the Existing Tree Survey prepared by Fong Hart Schneider Partners on April 30, 2018, none of these trees are protected. There are no trees in the public right-of-way.

Land Use and Zoning

The project site is located within the Westlake Community Plan, which designates the site for High Medium Residential land uses. The project site is also located within the North Subarea (Temple/Beaudry Neighborhood District) of the Central City West Specific Plan (Specific Plan) (Exhibit H). The project site is zoned CW "Central City West Specific Plan Zone," which indicates that the development regulations on the project site is established by the Specific Plan. The Specific Plan identifies land use categories and height/floor area ratio districts that guide development on-site. The project site has a land use category and height/floor area ratio district of R4(CW)-75/3-O per the Specific Plan, which allows land use, density and setback regulations of the R4 Zone per LAMC Section 12.11 and a maximum height of 75 feet and FAR of 3:1. The site is located within the City of Los Angeles Transit Priority Area, methane zone, and Bureau of Engineering (BOE) Special Grading Area. The site is also located within Tier 2 of the Transit Oriented Communities (TOC) Affordable Housing Incentive Program; however, the project is eligible for one increase in Tier from Tier 2 to Tier 3 for consisting of 100 percent On-Site Restricted Affordable Units.

Surrounding Properties

The surrounding area is characterized by residential and commercial uses (Exhibits C and D). Properties adjacent to the site to the north are zoned RC4(CW)-75/3 by the Specific Plan and are either vacant or improved with a surface parking lot and commercial and residential buildings. Properties to the east, west and south are zoned R4(CW)-75/3-O by the Specific Plan and improved with single-family and multi-family residential uses to the east, two-story multi-family residential uses to the west across Firmin Street, and multi-family residential uses to the south. Beyond the immediately abutting land uses in the adjoining area, properties to the east, west and south are zoned R4(CW)-75/3-O by the Specific Plan and improved with single- and multi-family residential uses, and properties to the north along Temple Street are zoned C1(CW)-75/1.5-O and improved with institutional uses, including a church. The Hollywood Freeway is located just north of the commercial uses on Temple Street. In addition, the fields for Civitas School of Leadership and Edward R. Roybal Learning Center are located approximately 210 feet southeast and Betty Plasencia Elementary School and Angelina Preschool are located approximately 575 feet west.

Streets

Firmin Street, abutting the subject property to the north, is a Local Limited Street per the Mobility Plan 2035, designated for a 50-foot full right-of-way width consisting of a 30-foot roadway and 10-foot sidewalks, and a 25-foot half right-of-way width consisting of a 15-foot roadway and 10-foot sidewalk. The existing half right-of-way width adjacent to the subject property measures 18 feet, consisting of a 15-foot half-roadway and a three-foot sidewalk. Per the Bureau of Engineering letter dated May 13, 2019 (Appendix B of Exhibit G), the project is not subject to any dedication and improvement per LAMC Section 12.37 A, as the subject site neither abut a Major or Secondary Highway or Collector Street nor is considered to be a corner lot or an L-shaped interior lot abutting a Major or Secondary Highway and a Local Street which intersect.

APPROVED ACTIONS

On May 16, 2019, the Director of Planning issued a Determination, which determined that the project is statutorily exempt from CEQA, approved Base and Additional Incentives under the TOC Affordable Housing Incentive Program, approved a Project Permit Compliance Review for the proposed project located within the Central City West Specific Plan, and dismissed a request for a Waiver of Dedication and Improvement to waive a seven-foot dedication and sidewalk improvement. The Director's Determination are described in detail below (Exhibit F).

Statutory Exemption per CEQA

State CEQA Guidelines Article 12.5, Exemptions for Agricultural Housing, Affordable Housing, and Residential Infill Projects (Sections 15191-15196) defines and describes projects which are statutorily exempt from CEQA as required by Public Resources Code Sections 21083 and 21159.23. The State CEQA Guidelines exempts affordable housing projects from CEQA if the projects meet all of the threshold criteria set forth in CEQA Guidelines Article 12.5, Sections 15192 and 15194. As found in the Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194 (Exhibit G), the project qualifies for an Affordable Housing Exemption from CEQA as it meets all of the threshold criteria set forth in CEQA Guidelines Sections 15192 and 15194.

Transit Oriented Communities

Measure JJJ was adopted by the Los Angeles City Council on December 13, 2016 and created the Transit Oriented Communities (TOC) Affordable Housing Incentive Program, which establishes incentives for residential or mixed-use projects located within one-half mile of a major transit stop, as defined under existing State law.

The TOC Affordable Housing Incentive Program Guidelines (TOC Guidelines), released on September 22, 2017, establish a tier-based system with development bonuses and incentives based on a project's distance from different types of transit. The largest bonuses are reserved for those areas in the closest proximity to significant rail stops or the intersection of major bus rapid transit lines. Required affordability levels are increased incrementally in each higher tier. The incentives provided in the TOC Guidelines describe the range of bonuses from particular zoning standards that applicants may select.

The project site is located less than 750 feet from the West Temple Street and East Edgeware Road intersection serving two regular bus lines: Metro Bus Line 10 with an average service interval of approximately 10 minutes, and DASH Pico Union/Echo Park Line with an average service interval of approximately 11 minutes. This qualifies the site as Tier 2 TOC Affordable Housing Incentive Area. However, the project is eligible for one increase in Tier from Tier 2 to Tier 3 for consisting of 100 percent On-Site Restricted Affordable Units. Specifically, the project will reserve 100 percent of the total 64 dwelling units for Extremely Low and Low Income Households. Furthermore, the TOC Guidelines require at least 10 percent of the total number of units to be set aside for Extremely Low Income Households to be eligible for TOC Incentives. As mentioned, the project is a 100-percent affordable housing project and therefore satisfies the requisite set aside of affordable housing to request TOC Incentives.

The TOC Guidelines allow three (3) Base Incentives for increased residential density, increased floor area ratio (FAR), and reduced automobile parking requirements. Based on the amount of affordable housing offered as well as its proximity to transit, a project may qualify for up to three

(3) Additional Incentives for yards and setbacks, open space, lot coverage, lot width, averaging, density calculation, height, and developments in public facilities zones. As authorized by the TOC Guidelines, a project may also qualify for two (2) further Additional Incentives for a total of up to five (5) Additional Incentives, because it adheres to the labor standards required in LAMC Section 11.5.11.

The project is eligible to request three (3) Base Incentives and a total of four (4) Additional Incentives for setting aside 100 percent of the total units for Extremely Low Income Households and adhering to the labor standards set forth in LAMC Section 11.5.11. The project has been granted the following Base and Incentives by the Director of Planning.

Base Incentives

1. **Density:** The Central City West Specific Plan allows R4 density on the project site with a base density of one (1) dwelling unit per 400 square feet of lot area, which results in a base density of 44 dwelling units for the subject site with 17,330 square feet of lot area. The TOC Guidelines allow up to a 70-percent increase in the maximum allowable density in exchange for setting aside at least 10 percent, or seven (7) units, of 64 total units for Extremely Low Income Households in Tier 3, which permits a maximum of 75 dwelling units on the subject site. The Director granted a 45-percent increase in density to permit a total of 64 dwelling units in lieu of 44 dwelling units.

2. **Floor Area Ratio (FAR):** The Central City West Specific Plan allows a maximum FAR of 3:1. The TOC Guidelines allow a 50-percent increase in the maximum FAR, permitting 4.5:1 in lieu of 3:1. The Director granted a 45-percent increase in the maximum FAR to permit 4.35:1 in lieu of 3:1.

3. **Automobile Parking:** The TOC Guidelines states that there shall be no required parking for all residential units for a project that consists of 100 percent On-Site Restricted Affordable Units. The Director granted a Base Incentive to allow no automobile parking requirement for all residential units for the proposed project that will set aside 100 percent of all 64 dwelling units for Extremely Low Income Households.

Additional Incentives

1. **Northerly Side Yard and Rear Yard Setbacks:** The Central City West Specific Plan imposes setback requirements of the R4 Zone on the subject property, requiring a minimum of 10-foot side yard setback and a minimum of 19-foot rear yard setback. The TOC Guidelines allow a 30-percent decrease in the required width or depth of two individual yards or setbacks. The Director granted a 30-percent reduction in the minimum northerly side yard setback to permit seven (7) feet in lieu of 10 feet, and a 30-percent reduction in the minimum rear yard setback to permit 13 feet, 4 inches in lieu of 19 feet.

2. **Usable Open Space:** Pursuant to the Central City West Specific Plan and LAMC, the project must provide at a minimum the following usable open space per dwelling unit: 100 square feet for each unit having less than three habitable rooms; 125 square feet for each unit having three habitable rooms; and 175 square feet for each unit having more than three habitable rooms. The project proposes 28 studio, 17 one-bedroom, 15 two-bedroom, and four (4) three-bedroom units, which requires a minimum of 7,075 square feet of usable open space. The TOC Guidelines allow a maximum of 25-percent reduction in the minimum open space requirement. The Director granted a 25-percent reduction in

the minimum usable open space requirement to allow 5,307 square feet in lieu of 7,075 square feet.

3. **Common Open Space:** The Central City West Specific Plan requires a minimum of 100 square feet per unit of the required usable open space to be provided as common open space. The project consists of 64 dwelling units, requiring a minimum of 6,400 square feet of usable open space to be provided as common open space. The TOC Guidelines allow a maximum of 25-percent reduction in the minimum open space requirement. The Director granted a 25-percent reduction in the minimum common open space requirement allowing 5,306 square feet in lieu of 6,400 square feet.

4. **Height:** The Central City West Specific Plan allows a maximum building height of 75 feet. The TOC Guidelines allow an increase in the maximum building height of up to 22 additional feet. The Director granted an 11-foot increase in the maximum building height to allow 86 feet in lieu of 75 feet.

Project Permit Compliance

The project site is located within the North Subarea (Temple/Beaudry Neighborhood District) of the Central City West Specific Plan. The Specific Plan identifies land use categories and height/floor area ratio districts that guide development on-site. The project site has a land use category and height/floor area ratio district of R4(CW)-75/3-O per the Specific Plan, which allows land use, density and setback regulations of the R4 Zone per LAMC Section 12.11 and a maximum height of 75 feet and FAR of 3:1.

As found in the Project Permit Compliance Findings of the Director's Determination dated May 16, 2019 (Exhibit F), the project substantially complies with all applicable regulations of the Specific Plan, including use, yards, floor area, height, open space, landscaping, parking, and inclusionary housing requirement. As such, the Director of Planning granted a Project Permit Compliance Review for the proposed project located within the Central City West Specific Plan.

Waiver of Development Standards

As previously mentioned, Firmin Street, abutting the subject property to the north, is a Local Limited Street per the Mobility Plan 2035, designated for a 50-foot full right-of-way width consisting of a 30-foot roadway and 10-foot sidewalks, and a 25-foot half right-of-way width consisting of a 15-foot roadway and 10-foot sidewalk. The existing half right-of-way width adjacent to the subject property measures 18 feet, consisting of a 15-foot half-roadway and a three-foot sidewalk.

The applicant initially filed a request for a Waiver of Dedication and Improvement to waive a seven-foot dedication and sidewalk improvement to complete a 25-foot half public right-of-way width and create a 10-foot sidewalk along Firmin Street adjoining the subject site. However, per the Bureau of Engineering letter dated May 13, 2019 (Appendix B of Exhibit G), the project is not subject to any dedication and improvement per LAMC Section 12.37 A, as the subject site neither abut a Major or Secondary Highway or Collector Street nor is considered to be a corner lot or an L-shaped interior lot abutting a Major or Secondary Highway and a Local Street which intersect. As such, the Director dismissed the request for a Waiver of Dedication and Improvement (Exhibit F).

TECHNICAL MODIFICATIONS MEMORANDUM

Planning staff requests the City Planning Commission to consider the Technical Modifications Memorandum dated June 25, 2019 (Memorandum), attached to this report as Exhibit E.a.

In May 2019, the Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194 (Exemption Findings) was prepared for the proposed project. Project Compliance for F. NOISE: Mobile in Table 3-3 of the Exemption Findings on page 3-24 states:

> "Pursuant to the *Firmin Court Project Noise Impact Analysi*s, prepared by Kunzman Associates, Inc., dated August 1, 2018 (Noise Report) […]"

As explained in the clarification letter from Ganddini Group, Inc., dated June 25, 2019 (Clarification Letter), attached to this report as Exhibit E.b., the Exemption Findings erroneously referenced Kunzman Associates, Inc. and August 1, 2018 as the author and date of the Firmin Court Project Noise Impact Analysis. The Memorandum serves to correct the author and date of the Firmin Court Project Noise Impact Analysis to Ganddini Group, Inc. and November 5, 2018.

Project Compliance for F. NOISE: Mobile in Table 3-3 of the Exemption Findings on pages 3-24 and 3-25 further stipulates:

> "Pursuant to the *Firmin Court Project Noise Impact Analysis*, […] the Project would not exceed any City thresholds related to construction or stationary noise. Surrounding land uses that would be sensitive to increases in noise include the single-family residential uses to the east, the multi-family residential use to the west, directly across Firmin Street, and the multi-family residential use to the south. The Project would not exceed any City thresholds with regards to these sensitive uses."

As described in the Clarification Letter (Exhibit E.b.), the Firmin Court Project Noise Impact Analysis, attached as Appendix D to the Exemption Findings, identified six (6) mitigation measures to reduce construction noise and vibrations emanating from the proposed project. The mitigation measures are listed in the Memorandum as MM NOI-1 through MM NOI-6. These mitigation measures were inadvertently omitted in Table 3-3 of the Exemption Findings; however, the Memorandum serves to clarify that the project would not exceed any City thresholds related to construction or stationary noise with implementation of applicable regulatory compliance measures regarding noise and the recommended mitigation measures listed in the Firmin Court Project Noise Impact Analysis, dated November 5, 2018. These measures are not new measures identified as part of the appeal. The Memorandum is intended to clarify the analysis in the Exemption Findings to include the mitigation measures that were already identified in the Firmin Court Project Noise Impact Analysis, dated November 5, 2018. As such, the project will continue to be consistent with the Mobile Noise Mitigation Measure of the Central City West Specific Plan Environmental Impact Report. Therefore, the project meets the threshold criteria set forth in Section 15192(a)(1) of the CEQA Guidelines, and qualifies for the Affordable Housing Exemption pursuant to the CEQA Guidelines Sections 15192 and 15194.

The Memorandum also serves to modify Conditions of Approval in the Director's Determination for Case No. DIR-2018-3691-TOC-SPP-WDI to include the six (6) mitigation measures and change the numbering of Administrative Conditions. The Environmental Findings in the Director's Determination are also modified to clarify that the project would not exceed any City thresholds

related to construction or stationary noise with implementation of regulatory compliance measures and the six (6) mitigation measures.

APPEAL AND APPELLATE BODY

On May 31, 2019, an appeal was filed by an aggrieved party, challenging the entire Determination of the Director. The appeal application and justification are provided in Exhibit A. Pursuant to Sections 12.22 A.25(g), 12.22 A.31(e), 12.37 I.3 and 12.36 C.4 of the Los Angeles Municipal Code (LAMC), the City Planning Commission is the appellate body for a project requesting multiple approvals including a Transit Oriented Communities Affordable Housing Incentive Program Review, Project Permit Compliance and Waiver of Dedication and Improvements. The decision of the City Planning Commission is not further appealable.

APPEAL POINTS AND STAFF RESPONSE

Excerpts from the appeal justification concerning land use entitlements and environmental impacts under CEQA and staff response are provided as follows.

Appeal Point 1: "These kind of big projects (Apartment Buildings) should be build in a good flat land not between old houses that have been build in (1903 before or after) and all this Construction is damage more the rest of the properties the dirt moves and is moving the houses and others are cracking from the foundation and other, the (Abuse) of the passed and present Construction going on. … This a Big Project, it's overwhelming for me just to imagine that if there is an (Earthquick) it will collapse and fall over on top of us."

Staff Response: The appellant contends that a project of this size should be built on flat land; otherwise, construction of the project would damage other properties and the building will collapse during an earthquake. As previously mentioned, the project has ascending slopes to the south and descending slopes to the north with an elevation change of approximately 20 feet. However, the project site is not located in a hillside area, delineated earthquake fault zone, or a seismic hazard zone, including an Alquist-Priolo Zone, landslide area, liquefaction area, and Preliminary Fault Rupture Study Area. Furthermore, the Grading Division of the Los Angeles Department of Building and Safety (LADBS) issued a Soils Report Approval Letter dated July 6, 2018 (Appendix H of Exhibit G), which states that the Department has reviewed the Preliminary Geologic and Geotechnical Engineering Investigation Report dated May 8, 2018 and prepared by GeoConcepts, Inc. for the proposed project (Appendix H of Exhibit G) and found that the Report is acceptable, provided the conditions listed in the Soils Report Approval Letter are complied with during site development.

The Soils Report Approval Letter requires that temporary excavations that remove lateral support to the public way, adjacent property, or adjacent structures shall be supported by shoring, and where any excavation, not addressed in the approved reports, would remove lateral support from a public way, adjacent property or structures, a supplemental report must be submitted to the LADBS Grading Division containing recommendations for shoring, underpinning and sequence of construction. The Soils Report Approval Letter also requires that prior to the issuance of any permit that authorizes an

excavation where the excavation is to be of a greater depth than are the walls or foundation of any adjoining building or structure and located closer to the property line than the depth of the excavation, the owner of the subject site must provide LADBS with evidence that the adjacent property owner has been given a 30-day written notice of such intent to make an excavation. In addition to these requirements, the conditions in the Soils Report Approval Letter further address excavation, shoring, foundations, fill, seismic design, retaining walls, drainage, sequence of construction, and LADBS inspection. The project is required to comply with the City Building Code, which incorporates the International Building Code and California Building Code. As such, the project is not expected to damage other properties during construction, and compliance with the City Building Code would ensure that the project incorporates seismic standards.

Appeal Point 2: "I, will no longer have sun at my back yard. I, will no longer have a beautiful sky view. I, will no longer have privacy. … There will only be darkness, the partial or total absence of light …"

Staff Response: Senate Bill (SB) 743 sets forth guidelines for evaluating aesthetic impacts of a project located in a transit priority area (TPA) under CEQA as follows: "Aesthetic and parking impacts of a residential, mixed-use residential, or employment center project on an infill site within a transit priority area (TPA) shall not be considered significant impacts on the environment." Pursuant to Public Resources Code Section 21099(a)(7), a TPA is defined as an area within one-half mile of a major transit stop that is existing or planned, and a major transit stop is defined as a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods. Pursuant to Public Resources Code Section 21099(a)(4), an infill site is a lot located within an urban area that has been previously developed, or on a vacant site where at least 75 percent of the perimeter of the site adjoins, or is separated only by an improved public right-of-way from, parcels that are developed with qualified urban uses. The City's Zoning Information (ZI) No. 2452 (Appendix A of Exhibit G) provides further information regarding SB 743 and states that "visual resources, aesthetic character, shade and shadow, light and glare, and scenic vistas or any other aesthetic impact as defined in the City's CEQA Threshold Guide shall not be considered an impact for infill projects within TPAs pursuant to CEQA."

The proposed project is subject to SB 743 as a residential project on an infill site surrounded by residential and commercial uses on all sides and located less than 750 feet from the West Temple Street and East Edgeware Road intersection serving two regular bus lines: Metro Bus Line 10 with an average service interval of approximately 10 minutes, and DASH Pico Union/Echo Park Line with an average service interval of approximately 11 minutes. Therefore, none of the potential aesthetic impacts associated with the project can be considered a significant impact on the environment.

Additionally, per the amended Appendix G Checklist of the CEQA Guidelines, CEQA does not protect private views and only requires an analysis of a

project's impact on quality of public views of the site and its surroundings. Public views are those that are experienced from publicly accessible vantage point.

Appeal Point 3: "It's not easy to deal with all the Construction that's going around at the same time with all the loud noise including all the machines and the banging and the dust, from 7:00 a.m. until 6:00 p.m. from Monday through Saturday."

Staff Response: The appellant expresses concerns regarding noise and dust impacts from project construction. A Firmin Court Project Noise Impact Analysis, dated November 5, 2018, was prepared by Ganddini Group, Inc. (Appendix D of Exhibit G). The Firmin Court Project Noise Impact Analysis analyzes the potential for project construction noise and operational noise to cause an exposure of person to or generation of noise levels in excess of established City of Los Angeles noise standards related to construction noise, transportation, and stationary related noise impacts caused by the proposed project. The Firmin Court Project Noise Impact Analysis concluded that with implementation of mitigation measures, the project would have less than significant construction noise and vibration impacts. The mitigation measures are listed in the Technical Modifications Memorandum dated June 25, 2019, attached to report as Exhibit E.a.

Furthermore, the project is subject to the City's Noise Ordinances that regulate noise levels during construction as follows:

LAMC Section 41.40 prohibits construction activity and repair work, where the use of any power tool, device, or equipment would disturb persons occupying sleeping quarters in any dwelling hotel, apartment, or other place of residence, between the hours of 9:00 p.m. and 7:00 a.m. Additionally, LAMC Section 41.40 prohibits construction or repair of any kind upon, or any earth grading for, any building or structure located on land developed with residential buildings or perform such work within 500 feet of land occupied with residential buildings before 8:00 a.m. or after 6 p.m. on any Saturday or national holiday nor at any time on any Sunday. LAMC Section 112.05 prohibits operation of any powered equipment or powered hand tool that exceeds 75 dBA for construction machinery in any residential zoned or within 500 feet of a residential zone. Therefore, implementation of the mitigation measures and compliance with the City's Noise Ordinances would reduce the project's noise impacts to a less than significant level.

Regarding dust, an Air Quality, Global Climate Change, and Health Risk Assessment Impact Analysis (Air Quality Report), dated July 27, 2018, was prepared by Kunzman Associates, Inc. (Appendix C of Exhibit G). Dust is considered particulate matter (PM) that comprises one of six (6) criteria pollutants that are subject to ambient air quality standards and analyzed in the Air Quality Report. The proposed project has been analyzed for the potential local air quality impacts created from construction-related fugitive dust using CalEEMod. The data provided in the CalEEMod output sheets in the Air Quality Report shows that none of the analyzed criteria pollutants would exceed SCAQMD's local emissions thresholds at the nearest sensitive

receptors. Therefore, construction of the proposed project would result in a less than significant local air quality impact.

Additionally, the project is required to comply with the South Coast Air Quality Management District's (SCAQMD) Rule 403, which governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or checmical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads 15 miles per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 miles per hour, and establishing a permanent ground cover on finished sites. Per the Air Quality Report, implementation of dust suppression techniques can reduce the fugitive dust generation, and compliance with Rule 403 would reduce impacts on nearby sensitive receptors.

STAFF RECOMMENDATION

For reasons stated herein and in the findings of the Director's Determination, the proposed project is eligible for the Base and Additional Incentives requested under the TOC Guidelines, complies with all applicable provisions of the Central City West Specific Plan, is not subject to any dedication and improvement requirements under LAMC Section 12.37, and is statutorily exempt from CEQA pursuant to CEQA Guidelines Sections 15192 and 15194. Therefore, staff recommends that the City Planning Commission: deny the appeal; determine that the project is statutorily exempt from CEQA; sustain the Director of Planning's Determination in approving the three (3) Base Incentives and four (4) Additional Incentives under the TOC Affordable Housing Incentive Program and a Project Permit Compliance Review for the project located within the Central City West Specific Plan and dismissing a request for a Waiver of Dedication and Improvement to waive a seven (7)-foot dedication and sidewalk improvement; and adopt the Director of Planning's Conditions of Approval and Findings, as modified in the Technical Modifications Memorandum dated June 25, 2019.

EXHIBIT A

Appeal Documents

Case No. DIR-2018-3691-TOC-SPP-WDI-1A

ORIGINAL

APPLICATIONS:

APPEAL APPLICATION

This application is to be used for any appeals authorized by the Los Angeles Municipal Code (LAMC) for discretionary actions administered by the Department of City Planning.

1. APPELLANT BODY/CASE INFORMATION

Appellant Body:

☐ Area Planning Commission ☒ City Planning Commission ☐ City Council ☐ Director of Planning

Regarding Case Number: Dir-2018-3691-TOC-SPP-WDI

Project Address: 418, 426, 430 North Firmin Street

Final Date to Appeal: May 31, 2019

Type of Appeal:
☒ Appeal by Applicant/Owner
☐ Appeal by a person, other than the Applicant/Owner, claiming to be aggrieved
☐ Appeal from a determination made by the Department of Building and Safety

2. APPELLANT INFORMATION

Appellant's name (print): Patricia Mendoza

Company:

Mailing Address: 425 North Boylston Street

City: Los Angeles State: CA. Zip: 90012

Telephone: (213) 910-5236 E-mail: playsdrums36@aol.com

- Is the appeal being filed on your behalf or on behalf of another party, organization or company?

  ☒ Self ☐ Other:

- Is the appeal being filed to support the original applicant's position? ☐ Yes ☒ No

3. REPRESENTATIVE/AGENT INFORMATION

Representative/Agent name (if applicable):

Company:

Mailing Address:

City: State: Zip:

Telephone: E-mail:

4. JUSTIFICATION/REASON FOR APPEAL

Is the entire decision, or only parts of it being appealed? ☒ Entire ☐ Part

Are specific conditions of approval being appealed? ☐ Yes ☒ No

If Yes, list the condition number(s) here: _____

Attach a separate sheet providing your reasons for the appeal. Your reason must state:

- The reason for the appeal
- How you are aggrieved by the decision
- Specifically the points at issue
- Why you believe the decision-maker erred or abused their discretion

5. APPLICANT'S AFFIDAVIT

I certify that the statements contained in this application are complete and true:

Appellant Signature: Patricia Mendoza Date: 5-31-19

6. FILING REQUIREMENTS/ADDITIONAL INFORMATION

- Eight (8) sets of the following documents are required for each appeal filed (1 original and 7 duplicates):
  - Appeal Application (form CP-7769)
  - Justification/Reason for Appeal
  - Copies of Original Determination Letter
- A Filing Fee must be paid at the time of filing the appeal per LAMC Section 19.01 B.
  - Original applicants must provide a copy of the original application receipt(s) (required to calculate their 85% appeal filing fee).
- All appeals require noticing per the applicable LAMC section(s). Original Applicants must provide noticing per the LAMC, pay mailing fees to City Planning's mailing contractor (BTC) and submit a copy of the receipt.
- Appellants filing an appeal from a determination made by the Department of Building and Safety per LAMC 12.26 K are considered Original Applicants and must provide noticing per LAMC 12.26 K.7, pay mailing fees to City Planning's mailing contractor (BTC) and submit a copy of receipt.
- A Certified Neighborhood Council (CNC) or a person identified as a member of a CNC or as representing the CNC may not file an appeal on behalf of the Neighborhood Council; persons affiliated with a CNC may only file as an individual on behalf of self.
- Appeals of Density Bonus cases can only be filed by adjacent owners or tenants (must have documentation).
- Appeals to the City Council from a determination on a Tentative Tract (TT or VTT) by the Area or City Planning Commission must be filed within 10 days of the date of the written determination of said Commission.
- A CEQA document can only be appealed if a non-elected decision-making body (ZA, APC, CPC, etc.) makes a determination for a project that is not further appealable. [CA Public Resources Code ' 21151 (c)].

This Section for City Planning Staff Use Only		
Base Fee: 89-	Reviewed & Accepted by (DSC Planner): Diana Jimenez	Date: 5.31.19
Receipt No: 0103047900	Deemed Complete by (Project Planner):	Date:
☑ Determination authority notified	☐ Original receipt and BTC receipt (if original applicant)	

May 31, 2019

Director's Determination Transit Oriented Communities Affordable Housing Incentive Program Central City West Specific Plan Project Permit Compliance Review, And Waiver of Dedication And Improvement.

Attention: Vincent P. Bertoni, AICP Director of Planning / Jane Choi, Senior City Planner / Nuri Cho, City Planning Associate

Regarding: Case No.: DIR-2018-3691-TOC-SPP-WDI
CEQA: ENV-2018-3692-SE

Dear Madam/Sirs:

Many years ago between (15 or 20) years ago I, had a conversation with a friend that I, have known for many years an Attorney, he shared with me that he came from a family that was in the Construction Business for many years, he also worked for many years in the Construction Business for his family and others.

He claimed that everything that he saw or witness regarding the Construction going on at Los Angeles, the City of Los Angeles approving all Construction was wrong, he did not understand why the people or the Community did not protest or complain.

I, believe he meant the process and the approval.

These kind of big projects (Apartment Buildings) should be build in a good flat land not between old houses that have been build in (1903 before or after) and all this Construction does is damage more the rest of the properties the dirt moves and is moving the houses and others are cracking from the foundation and other, the (Abuse) of the passed and present Construction going on.

They take advantage of digging the dirt and damage the other properties next door and there is never an (Inspector Present to Witness this Process) they (Abuse) and (Lie) to the Community.

Many of them are Rude and Arrogant and at the end of the day they Laugh at us.

I, will no longer have sun at my back yard.

I, will no longer have a beautiful sky view.

I, will no longer have privacy.

There will only be darkness, the partial or total absence of light, and maybe the feeling of sadness.

This is a Big Project, it's overwhelming for me just to inmagine that if there is an (Earthquick) it will collapse and fall over on top of us, and kill us I, do Fear that.

The (Fear) to fall down suddenly because of the pressure or having no strength or support.

The people that don't live in this Community and do not Pay our Property Tax's and Mortgage should not be approving or voting for the above Project, all they do is harm us, cause damage, injuries, and emotional stress.

They have no Respect for us.

WRONGDOING and NEGLIGENCE,

This Community has been completed abandoned in many ways, no one cares which results in someone else getting hurt or property being damaged.

A duty of care, if the (Applicant / Owner, Representative, City of Los Angeles) care the above projects Would Not be build in our Community's.

Our rights have been violated in many different ways, for many years.

Please Note, I, am (CLAUSTROPHIBIA) is the Fear of having no escape, and being closed into a small space, the Fear of being trapped.

When I, see the tall buildings I, feel dizzy or the feeling of vomiting or nausea, headache.

It's very clear that all the Private Investors the past and the present and the City of Los Angeles, including Los Angeles Unified School District and all the people that have voted all the passed building projects and the present don't care for our Community.

When, I was a little girl growing up our Landlord would do all repairs by himself with no help, he owned a lot of property in this Community, he claimed that this Community was consider Beverly Hills many years ago, it is consider to many people important in history.

And to many people is consider a (Ghetto Community), it's sad.

A part of a City, especially a slum area, occupied by a minority group or groups.

I, am asking for the (STOP) of all this EXPLOITATION of all Construction to be stopped in our Community, please.

I, have been injured in
the past in many different ways and our properties have also been damaged in the past and the present in regards to all Construction process.

Every day we have a battle to fight in this Community and in our personal lives.

With all due respect,

I, am asking for the above office the Department of City Planning, City of Los Angeles, Executive Offices to (DENY) the above project and request for the (Applicant / Owner) to build his project in a better land and flat area, please.

The (Rich Investor's) and many other's are always on top of us the Poor People and the Poor Communities that don't complain of (Fear) and that's why there is always the ABUSE OF CONSTRUCTION or others going on for months and years.

A big building was build not to long ago on Boylston St., the Community calls it the Big Monster and here comes more projects of Construction.

It's like going back to Slavery and the Abuse of all you guys.

A condition in which individuals are owned by others, who control where they live.

A person entirely under the domination of some influence or person or law.

(Intimidation).

It's time to stop the Abuse of all Construction in our Community !.

It's not easy to deal with all the Construction that's going around at the same time with all the loud noise including all the machines and the banging and the dust, from 7:00 a.m. until 6:00 p.m. from Monday through Saturday.

It's not right and fair, people work, kids attend school, many of us suffer of migraines, headches.

Thank You,

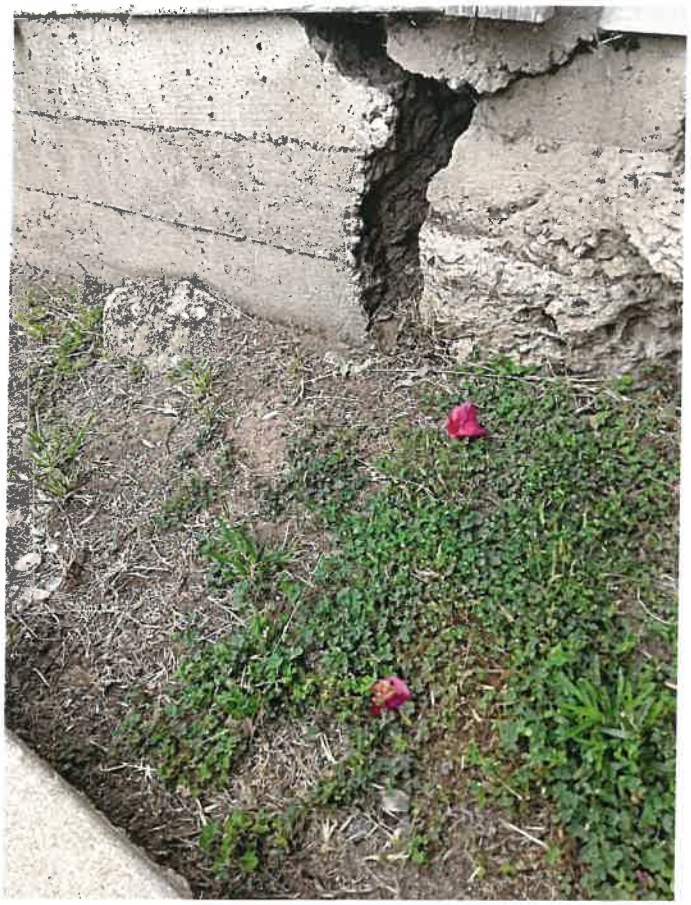
Patricia Mendoza
425 North Boylston Street
Los Angeles, CA 90012
(213) 910-5236 cell no.
Playsdrums3@aol.com



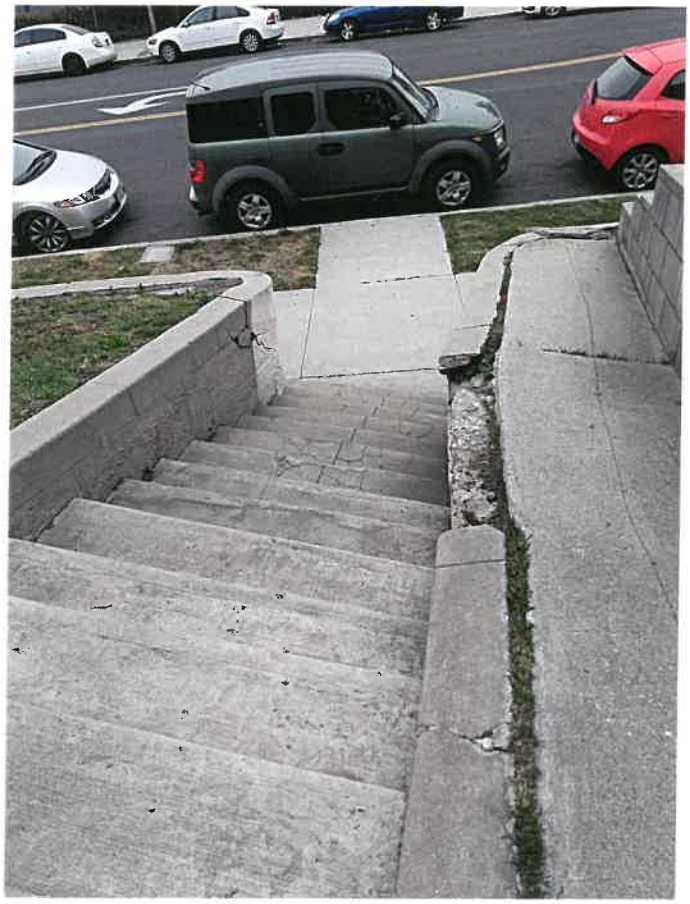








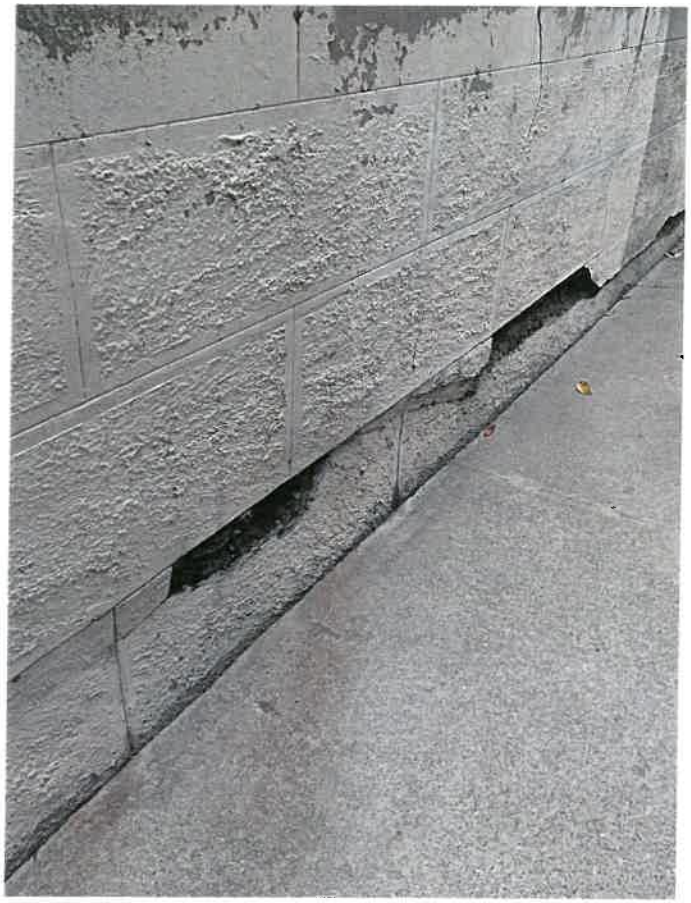












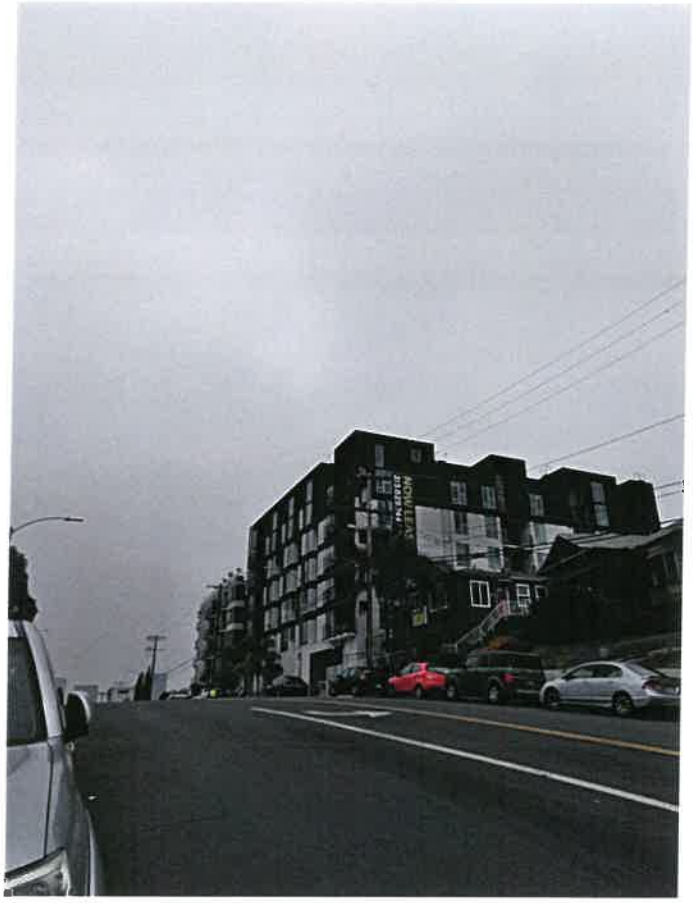













NOW LEAS
213.629.744

EXHIBIT B

Project Plans

Case No. DIR-2018-3691-TOC-SPP-WDI-1A

ENTITLEMENTS SUBMITTAL

UPDATED MAY 8, 2019

PROJECT INFORMATION:

ADDRESS:
418, 426, 430 N. FIRMIN STREET
LOS ANGELES, CA 90026

ASSESSOR PARCEL NUMBERS:
418 N. FIRMIN STREET - APN 5160-022-012
426 N. FIRMIN STREET - APN 5160-022-007
430 N. FIRMIN STREET - APN 5160-022-006

PROJECT DIRECTORY:

PROJECT OWNER/APPLICANT
FIRMIN COURT, L.P.
3431 WESLEY STREET, SUITE F
CULVER CITY, CALIFORNIA 90232
CONTACT: TED HANDEL, GENERAL PARTNER
TELEPHONE: 310.702.7228
EMAIL: THANDEL@DECRO.ORG

LANDSCAPE ARCHITECT
FONG HART SCHNEIDER + PARTNERS
31742 COAST HIGHWAY
LAGUNA BEACH, CA 92651
CONTACT: DAVID SCHNEIDER, PRINCIPAL
TELEPHONE: 949.645.9444
EMAIL: D.SCHNEIDER@FHSP.NET

ARCHITECT
DAHLIN GROUP ARCHITECTURE/PLANNING
18818 TELLER AVENUE, SUITE 260
IRVINE, CALIFORNIA 92612
CONTACT: JIRAIR GARABEDIAN
AIA, NCARB, LEED AP
TELEPHONE:949.250.4680
EMAIL: JIRAIR.GARABEDIAN@DAHLINGROUP.COM

CIVIL
KPFF
700 S. FLOWER STREET, SUITE 2100
LOS ANGELES, CA 90017
CONTACT: CHRISTOPHE BORNAND, PE
TELEPHONE: 213.418.0201
EMAIL: CHRISTOPHE.BORNAND@KPFF.COM

PROPOSED 100% AFFORDABLE HOUSING PROJECT:
64 TOTAL RESIDENTIAL UNITS
45 PERMANENT SUPPORTIVE HOUSING ("PSH") UNITS (EXTREMELEY LOW INCOME - 30% AMI)
19 LOW INCOME UNITS (60% AMI)
PSH SUPPORTIVE SERVICES AREA (INCLUDES OFFICE, KITCHEN, & COMMUNITY ROOMS) - 2,200 SQUARE FEET

PROPOSED CONSTRUCTION TYPE:
TYPE III-A, TYPE I-A

OCCUPANCY TYPE
R2, S2, B, A

LAND USE CONSULTANT
CRAIG LAWSON & CO., LLC
3221 HUTCHISON AVENUE, SUITE D
LOS ANGELES, CALIFORNIA 90034
CONTACT: KATHERINE CASEY, PROJECT MANAGER
TELEPHONE: 310.838.2400 EXT. 103
EMAIL: KATHERINE@CRAIGLAWSON.COM

SHEET INDEX

ARCHITECTURE
C1.00 SURVEY (FOR REFERENCE ONLY)
A1.0 PLOT PLAN
A1.1 OPEN SPACE EXHIBIT
A1.2 SETBACK EXHIBIT
A2.1 FIRST FLOOR PLAN (LOWER GROUND FLOOR)
A2.2 2ND FLOOR PLAN (UPPER GROUND FLOOR)
A2.3 3RD FLOOR PLAN (PODIUM)
A2.4 4TH FLOOR PLAN
A2.5 5TH FLOOR PLAN
A2.6 6TH FLOOR PLAN
A2.7 7TH FLOOR PLAN
A2.8 ROOF PLAN
A2.9 TYPICAL UNIT PLANS
A3.1 SECTION A-A
A3.2 SECTION B-B
A4.1 WEST ELEVATION (FIRMIN STREET FRONTAGE)
A4.2 NORTH ELEVATION
A4.3 EAST ELEVATION (REAR ELEVATION)
A4.4 SOUTH ELEVATION

LANDSCAPE ARCHITECTURE
L1.01 LEVEL 1 LANDSCAPE PLAN
L1.02 LEVEL 1+2 LANDSCAPE PLAN
L1.03 LEVEL 1+2 FENCE ELEVATIONS
L1.04 PODIUM (3RD) FLOOR PLAN
L1.05 SKY DECK (7TH) FLOOR PLAN
L1.06 PLANT PALETTE
L1.07 EXISTING TREE INVENTORY PLAN FOR ENVIRONMENTAL ASSESSMENT

VICINITY MAP

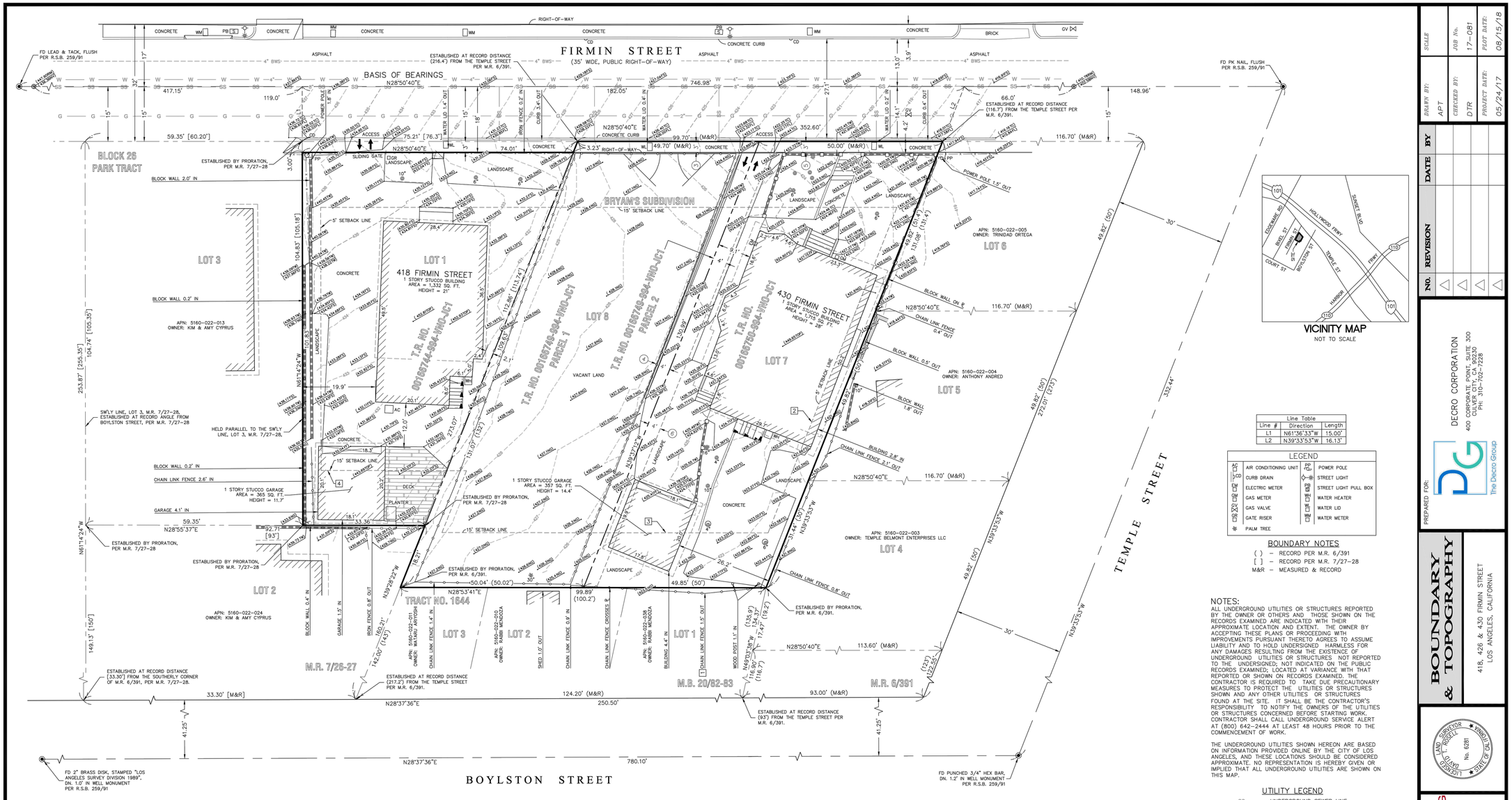


The Decro Group

DAHLIN

JOB NO. 1410.002

18818 Teller Avenue
Suite 260
Irvine, CA 92612
949-250-4680



Line Table		
Line #	Direction	Length
L1	N61°36'33"W	15.00'
L2	N39°33'53"W	16.13'

LEGEND

AC	AIR CONDITIONING UNIT	PP	POWER POLE
CD	CURB DRAIN		STREET LIGHT
E	ELECTRIC METER		STREET LIGHT PULL BOX
G	GAS METER	WH	WATER HEATER
GV	GAS VALVE	WL	WATER LID
GR	GATE RISER	WM	WATER METER
	PALM TREE		

BOUNDARY NOTES

( ) – RECORD PER M.R. 6/391
[ ] – RECORD PER M.R. 7/27-28
M&R – MEASURED & RECORD

NOTES:
ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO AGREES TO ASSUME LIABILITY AND TO HOLD UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED; LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED ONLINE BY THE CITY OF LOS ANGELES, AND THESE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. NO REPRESENTATION IS HEREBY GIVEN OR IMPLIED THAT ALL UNDERGROUND UTILITIES ARE SHOWN ON THIS MAP.

UTILITY LEGEND

- SS — UNDERGROUND SEWER LINE
- W — UNDERGROUND WATER LINE
- G — UNDERGROUND GAS LINE
- BWS — UNDERGROUND BWS LINE
- OH — OVERHEAD LINE

SURVEY CERTIFICATION

TO: DECRO CORPORATION, NEW GENERATION FUND, LLC; ENTERPRISE COMMUNITY LOAN FUND, INC., AND THEIR RESPECTIVE SUCCESSORS AND ASSIGNS & FIDELITY NATIONAL TITLE COMPANY.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS AND INCLUDES ITEMS 2, 3, 4, 5, 6(A), 6(B), 7(A), 7(B)(1), 7(C), 8, 9, 10(A), 11, 13, 16, 17, 18, 19 AND 20 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON MAY 24, 2017.

DATE OF PLAT OR MAP: AUGUST 15, 2018

David T. Rosell

DAVID T. ROSELL P.L.S. 6281

THIS MAP OR PLAT OF SURVEY OF THE PREMISES SHOWN HEREON IS THE SAME AS THAT DESCRIBED IN FIDELITY NATIONAL TITLE COMPANY TITLE COMMITMENT NUMBER 00166744-994-VNO-JC1, DATED APRIL 24, 2017, COMMITMENT NUMBER 00166749-994-VNO-JC1, DATED APRIL 24, 2017, & COMMITMENT NUMBER 00166750-994-VNO-JC1, DATED APRIL 24, 2017.

418 FIRMIN STREET

TITLE REPORT EXCEPTIONS
T.R. NO. 00166744-994-VNO-JC1
DATED: APRIL 24, 2017
NONE

LEGAL DESCRIPTION:
THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF LOS ANGELES, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOT 1 OF BLOCK 26 OF PARK TRACT IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS SHOWN ON MAP FILED IN BOOK 7, PAGES(S) 26 AND 27 OF MISCELLANEOUS RECORDS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EXCEPT THE WESTERLY 3 FEET THEREOF TAKEN BY THE CITY OF LOS ANGELES FOR WIDENING TO FIRMAN STREET.

APN: 5160-022-012

426 FIRMIN STREET

TITLE REPORT EXCEPTIONS
T.R. NO. 00166749-994-VNO-JC1
DATED: APRIL 24, 2017

(3) STREET EASEMENT RECORDED IN BOOK 3361, PAGE 238 OF DEEDS.
–PLOTTED AS SHOWN
(4) COMMUNITY DRIVEWAY EASEMENT RECORDED OCTOBER 21, 1947 AS INSTRUMENT NO. 1108, O.R.
–PLOTTED AS SHOWN

LEGAL DESCRIPTION:
PARCEL 1:
LOT 8 OF BYRAMS SUBDIVISION OF A PORTION OF LOT 1, BLOCK 39 OF HANCOCK'S SURVEY, IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 6, PAGE 391, OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 2:
AN EASEMENT IN THE SOUTHERLY 4 FEET OF LOT 7 OF BYRAMS SUBDIVISION OF A PORTION OF LOT 1 IN BLOCK 39 OF HANCOCK'S SURVEY, IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 6, PAGE 391, MISCELLANEOUS RECORDS, EXTENDING FROM THE STREET TO THE EASTERLY BOUNDARY OF SAID LOT 7, TO BE USED AS A COMMUNITY DRIVEWAY, GRANTED BY HARRY R. JONES AND JESSIE L. JONES BY DEED RECORDED OCTOBER 21, 1947.

APN: 5160-022-007

430 FIRMIN STREET

TITLE REPORT EXCEPTIONS
T.R. NO. 00166750-994-VNO-JC1
DATED: APRIL 24, 2017

(5) STREET WIDENING EASEMENT RECORDED IN BOOK 3364, PAGE 238 OF DEEDS.
–PLOTTED AS SHOWN
(6) COMMUNITY DRIVEWAY EASEMENT RECORDED OCTOBER 21, 1947 AS IN BOOK 25503, PAGE 53, O.R.
–PLOTTED AS SHOWN

LEGAL DESCRIPTION:
LOT 7 OF BYRAM'S SUBDIVISION OF PART OF LOT 1 IN BLOCK 39 OF HANCOCK SURVEY OF DONATION LOTS, IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 6 PAGES 391 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

APN: 5160-022-006

GENERAL NOTES:
BASIS OF BEARING:
BEARINGS ARE BASED ON THE CENTERLINE OF FIRMIN STREET, HAVING A BEARING OF NORTH 28°50'40" EAST, PER R.S.B. 259/91.

AREA:

GROSS		
418 FIRMIN:	5,468 SQ. FT.	0.126 ACRES
426 FIRMIN:	6,076 SQ. FT.	0.139 ACRES
430 FIRMIN:	6,085 SQ. FT.	0.140 ACRES
TOTAL:	17,629 SQ. FT.	0.405 ACRES
NET		
418 FIRMIN:	5,468 SQ. FT.	0.126 ACRES
426 FIRMIN:	5,927 SQ. FT.	0.136 ACRES
430 FIRMIN:	5,935 SQ. FT.	0.136 ACRES
TOTAL:	17,330 SQ. FT.	0.398 ACRES

FLOOD ZONE:
ZONE X – AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
COMMUNITY PANEL NO. 06037C1610F
DATED: SEPTEMBER 26, 2008

ZONING:
R4(CW)-75/3-O – CENTRAL CITY WEST SPECIFIC PLAN ZONE

BUILDING SETBACKS:
FRONT: 15'
SIDE: 5'
REAR: 15'

MAXIMUM HEIGHT:
75'

PARKING REQUIREMENTS:
ONE PARKING SPACE FOR EACH DWELLING UNIT OF LESS THAN THREE HABITABLE ROOMS, ONE AND ONE-HALF PARKING SPACES FOR EACH DWELLING UNIT OF THREE HABITABLE ROOMS, AND TWO PARKING SPACES FOR EACH DWELLING UNIT OF MORE THAN THREE HABITABLE ROOMS.

EXISTING PARKING:
2 – 2 CAR GARAGES EXIST.

ACCESS NOTE:
VEHICULAR ACCESS IS FROM FIRMIN STREET, A PUBLIC RIGHT-OF-WAY.

NOTES:
1 ALL UTILITIES APPEAR TO ENTER THE PROPERTY VIA PUBLIC RIGHT-OF-WAYS.
2 THERE ARE NO GAPS, GORES OR OVERLAPS BETWEEN THE SUBJECT PROPERTY AND THE ABUTTING PUBLIC RIGHT-OF-WAYS, BEING HOLLYWOOD BOULEVARD, WESTERN AVENUE AND ACCESS GARFIELD PLACE.
3 THERE IS OBSERVABLE EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS WITHIN RECENT MONTHS.
4 THERE ARE NOT ANY CHANGES IN STREET RIGHT-OF-WAY LINES EITHER COMPLETED OR PROPOSED, AND AVAILABLE FROM THE CONTROLLING JURISDICTION.
5 THERE IS NO OBSERVABLE EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.
6 THERE IS NO OBSERVABLE EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL

ENCROACHMENTS:
[1] CHAIN LINK FENCE ENCROACHES 1.0' OUT
[2] BUILDING ENCROACHES 2.2' OVER SIDE SETBACK LINE.
[3] GARAGE ENCROACHES 10.6' OVER REAR SETBACK LINE.
[4] GARAGE ENCROACHES 13.5' OVER REAR SETBACK LINE & 0.7' OVER SIDE SETBACK LINE.

NOTE:
THIS SURVEY DRAWING IS PROVIDED SOLELY FOR THE USE OF THE CURRENT PARTIES AND NO LICENSE HAS BEEN CREATED, EXPRESSED OR IMPLIED TO COPY THIS SURVEY EXCEPT AS IS NECESSARY IN CONJUNCTION WITH THIS ORIGINAL TRANSACTION.

SCALE	
JOB No.	17-081
DRAWN BY:	APT
CHECKED BY:	DTR
PROJECT DATE:	05/24/17
PLOT DATE:	08/15/18

NO.	REVISION	DATE	BY

PREPARED FOR:
DECRO CORPORATION
400 CORPORATE POINT, SUITE 300
CULVER CITY, CA 90230
PH: 310-702-7228
The Decro Group

BOUNDARY & TOPOGRAPHY
418, 426 & 430 FIRMIN STREET
LOS ANGELES, CALIFORNIA

LICENSED LAND SURVEYOR DAVID T. ROSELL No. 6281 STATE OF CALIFORNIA

ROSELL SURVEYING
LAND SURVEYING, INC
LAND SURVEYING, MAPPING, & GIS
3505 Cadillac Avenue, Bldg. O-108
Costa Mesa, California 92626
Fax: (714)934-4544 www.RosellSurveying.com
Ph: (714)934-4500 info@rosellsurveying.com

SHEET
1 OF 1

17-081

FOR REFERENCE ONLY

DAHLIN
18818 Teller Avenue
Suite 260
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FIRMIN COURT
LOS ANGELES
FOR
THE DECRO GROUP

The Decro Group

kpff
700 South Flower Street
Suite 2100
Los Angeles, CA 90017
O: 213.418.0201
F: 213.266.5294
www.kpff.com

100% DESIGN DEVELOPMENT 09.24.18

REVISIONS

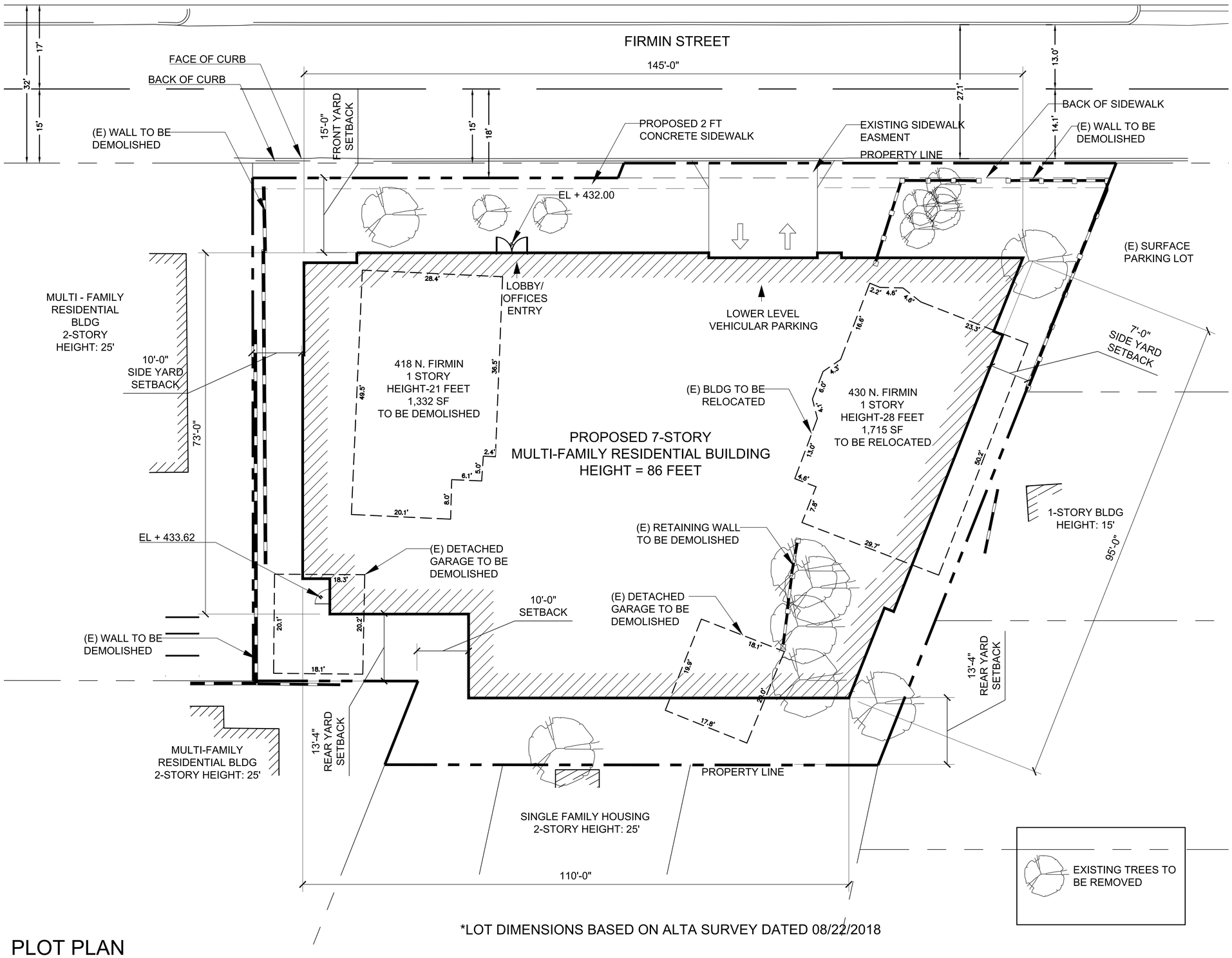
SEAL / SIGNATURE

JOB NO.	**1800143**
DRAWN	**FS**
CHECK	**KY**

SURVEY (FOR REFERENCE ONLY)

SHEET
C1.00

P:\2018\1800143 418 - 430 Firmin Court\DWG\SHEET\1800143-C1.00VM.dwg, Nov 07, 2018 - 6:07pm



*LOT DIMENSIONS BASED ON ALTA SURVEY DATED 08/22/2018

PLOT PLAN

PROJECT SUMMARY:

EXISTING ZONING:
CENTRAL CITY WEST SPECIFIC PLAN
MAP NO.2, NORTH SUBAREA, TEMPLE/BEAUDRY NEIGHBORHOOD DISTRICT
R4(CW)-75/3-0/MULTIPLE RESIDENTIAL CATEGORY
GENERAL PLAN LAND USE DESIGNATION:
MEDIUM RESIDENTIAL

LOT AREA AND BUILDABLE AREA:

TOTAL EXISTING LOT AREA (INCLUDES SETBACK AREA)	17,330 SF
BUILDABLE AREA (EXCLUDES SETBACK AREA OF 5,537 SF)	11,793 SF

FLOOR AREA:

ALLOWABLE FLOOR AREA 3:1 FAR (11,793x3)	35,379 SF
PROPOSED FLOOR AREA	**51,299 SF**
TOC TIER 3, BASE INCENTIVE, SECTION VI.1.b.v. FLOOR AREA INCENTIVE (+45%)	
RESIDENTIAL	49,099 SF
PERMANENT SUPPORTIVE HOUSING SERVICES AREA (INCLUDES OFFICE, KITCHEN & COMMUNITY ROOMS)	2,200 SF

RESIDENTIAL DENSITY:

ALLOWED RESIDENTIAL BASE DENSITY R4(CW) ZONE (17,330 SF ÷ 400)	44 UNITS

AS PER TOC PROCEDURES SECTION V.2.a - ROUNDING OF FRACTIONAL NUMBERS - ANY NUMBERS REGARDING PARKING, NUMBER OF UNITS (INCLUDING BASE DENSITY), NUMBER OF AFFORDABLE UNITS, OR NUMBER OF REPLACEMENT UNITS THAT RESULT IN A FRACTION SHALL BE ROUNDED UP TO THE NEXT WHOLE NUMBER)

PROPOSED RESIDENTIAL DENSITY **64 UNITS**
BASE DENSITY OF 44 UNITS + 45% TOC DENSITY BONUS OF 20 UNITS
NOTE: TOC TIER 3 DENSITY BONUS ALLOWS UP TO 70% DENSITY BONUS OR 75 TOTAL UNITS
64 TOTAL RESIDENTIAL UNITS CONSISTING OF:
45 PERMANENT SUPPORTIVE HOUSING UNITS 19 LOW INCOME HOUSING UNITS

HEIGHT

HEIGHT LIMIT - CCWSP MAP 2 - ZONE R4(CW)-75/3-0	75 FEET
PROPOSED HEIGHT - TOC TIER 3 ADDITIONAL INCENTIVE SECTION VII.1.g.2 & a. EXCEPTION ALLOWS FOR 2 ADDITIONAL STORIES UP TO 22 ADDITIONAL FEET / ONLY 11 FEET FOR NO STEPBACKS	86 FEET

OPEN SPACE

LAMC SECTION 12.21 G. - APPLICABLE TO NEW CONSTRUCTION OF 6 UNITS OR MORE	
STUDIO < 3 HABITABLE ROOMS (100 SF/UNIT X 28 UNITS)	2,800 SF
1 BDR < 3 HABITABLE ROOMS (100 SF/UNIT X 17 UNITS)	1,700 SF
2 BDR = 3 HABITABLE ROOMS (125 SF/UNIT X 15 UNITS)	1,875 SF
3 BDR > 3 HABITABLE ROOMS (175 SF/UNIT X 4 UNITS)	700 SF
TOTAL OPEN SPACE REQUIRED	**7,075 SF**
TOTAL OPEN SPACE PROPOSED	**5,307 SF**
TOC TIER 3 ADDITIONAL INCENTIVE, SECTION VII.1.b.ii	
25% DECREASE IN REQUIRED OPEN SPACE (7,075 SFX25% = 1,768 SF REDUCTION)	
COMMON OPEN SPACE	
2ND LEVEL COMMUNITY ROOM	600 SF
3RD LEVEL COMMUNITY ROOM	726 SF
COMMUNITY ROOM [LAMC SECTION 12.21.G.2(a)(4)(i) - 25% OF TOTAL O/S = 1,326 SF]	
3D LEVEL - PODIUM LEVEL COURTYARD	2,291 SF
7TH LEVEL SKYDECK	527 SF
50% OF FRONT YARD SETBACK [CCWSP, APPENDIX D, SECTION C.1.(c)]	1,163 SF
TOTAL COMMON OPEN SPACE PROPOSED	**5,307 SF**
CENTRAL CITY WEST SPECIFIC PLAN, APPENDIX D, SECTION C.1.(a)	**6,400 SF**
A MINIMUM OF 100 SF PER UNIT OF THE REQUIRED USEABLE OPEN SPACE, AS PER LAMC SECTION 12.21.G, SHALL BE PROVIDED AS COMMON OPEN SPACE	
TOC ADDITIONAL INCENTIVE TO ALLOW 17.1% REDUCTION IN REQ'D COMMON O/S PER UNIT	**5,307 SF**

TREES

REQUIRED - CCWSP, APPENDIX D, SECTION C.2. - (1) TREE PER DWELLING UNIT MINIMUM 12' HEIGHT, 3" CALIPER AT TIME OF PLANTING	64 TREES
PROVIDED ON-SITE	35 TREES
PROVIDED OFF-SITE	29 TREES

AUTOMOBILE PARKING
REQUIRED
RESIDENTIAL

NO PARKING REQ'D FOR 100% AFFORDABLE UNITS - TOC TIER 3 BASE INCENTIVE, SECTION VI.2.a.i.2.	0 SPACE
TOTAL REQUIRED PARKING SPACES	0 SPACE
TOTAL PARKING SPACES PROVIDED	**10 SPACES**

1 RESIDENTIAL - MGR'S UNIT AND 9 RESIDENTIAL/GUEST SPACES

BICYCLE PARKING(AMENDED BICYCLE ORDINANCE 185,485, EFFECTIVE MAY 9, 2018)
RESIDENTIAL - LAMC SECTION 12.21.A.16(a)(1)

BICYCLE PARKING SPACES REQUIRED
LONG TERM

1-25 DWELLING UNITS (1 PER UNIT) - 25 UNITS X 1 SPACE	25 SPACES
26 - 100 DWELLING UNITS (1 PER 1.5 UNITS) - 39 UNITS / 1.5 SPACES	26 SPACES
TOTAL LONG TERM SPACES REQUIRED	**51 SPACES**

SHORT TERM

1-25 DWELLING UNITS (1 PER 10 UNIT) - 25 UNITS / 10 SPACE	2 SPACES
26 - 100 DWELLING UNITS (1 PER 15 UNITS) - 39 UNITS / 15 SPACES	3 SPACES
TOTAL SHORT TERM SPACES REQUIRED	**5 SPACES**

BICYCLE PARKING SPACES PROVIDED

LONG TERM	51 SPACES
SHORT TERM	5 SPACES
TOTAL RESIDENTIAL BICYCLE PARKING SPACES REQUIRED/PROVIDED	**56 SPACES**

SETBACKS REQUIRED
(CCWSP, SECTION 5.F. - USE & AREA REGULATIONS OF R4 ZONE)

FRONT YARD - LAMC SECTION 12.11.C.1 AND 12.10.C.1 - SAME AS REQ'D IN R3 ZONE	15 FEET
SIDE YARD - SOUTHERLY - LAMC SECTION 12.11.C.2.	10 FEET
SIDE YARD - NORTHERLY - LAMC SECTION 12.11.C.2	10 FEET
REAR YARD - LAMC SECTION 12.11.C.3	19 FEET

SETBACKS PROPOSED

FRONT YARD	15 FEET
SIDE YARD - SOUTHERLY	10 FEET
SIDE YARD - NORTHERLY	7 FEET
TOC - TIER 3 ADDITIONAL INCENTIVE, SECTION VII.1.A.ii.2.c. - 30% DECREASE OF 2 INDIVIDUAL YARDS)	
REAR YARD	13 FEET 4 INCHES
TOC - TIER 3 ADDITIONAL INCENTIVE, SECTION VII.1.A.ii.2.c. - 30% DECREASE OF 2 INDIVIDUAL YARDS)	

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OPEN SPACE REQUIREMENTS:
AS PER LAMC SECTION 21.21 G - APPLICABLE TO NEW CONSTRUCTION OF 6 UNITS OR MORE

STUDIO (100 SF X 28)	2,800 SF
1BR-1BA (100 SF X 17)	1,700 SF
2BR-1BA (125 SF X 15)	1,875 SF
3BR-2BA (175 SF X 4)	700 SF
TOTAL OPEN SPACE REQUIRED	**7,075 SF**

25% O.S. REDUCTION PER TOC TIER 3 **5,307 SF**
25% DECREASE IN REQUIRED OPEN SPACE
(7,075 SF x 25% = 1,768 SF REDUCTION)

COMMON OPEN SPACE PROVIDED:

GROUND FLOOR OPEN SPACE
50% OF FRONT YARD SETBACK (2,326 SF/2) 1,163 SF
(CCWSP, APPENDIX D, SECTION C.1.(c))

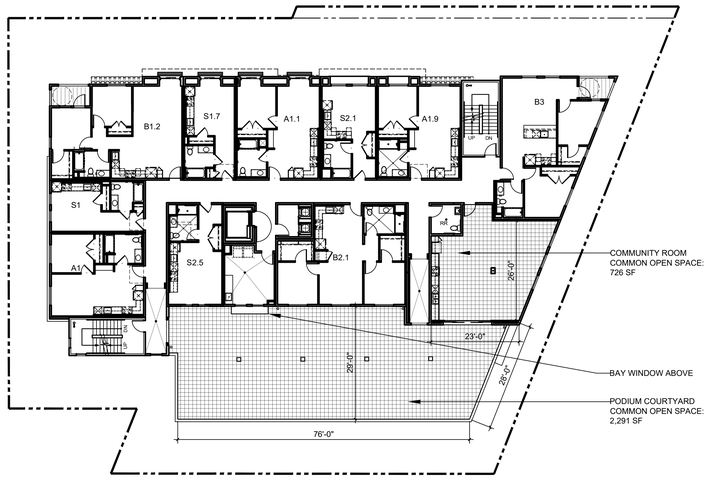
SECOND FLOOR OPEN SPACE
COMMUNITY ROOM (LAMC SECTION 12.21.G.2(a)(4)(i)) 600 SF
(25% OF TOTAL OPEN SPACE ONLY - 1,326 SF)

PODIUM LEVEL OPEN SPACE
PODIUM COURTYARD 2,291 SF
COMMUNITY ROOM (LAMC SECTION 12.21.G.2(a)(4)(i) 726 SF
(25% OF TOTAL OPEN SPACE ONLY - 1,326 SF)

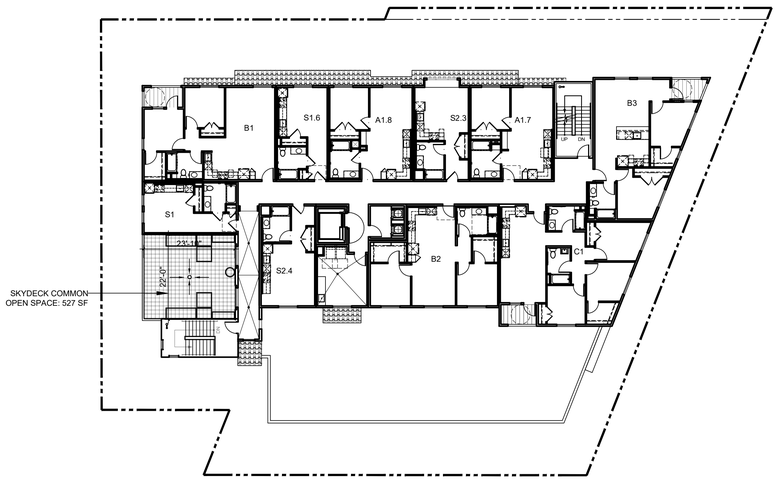
7TH FLOOR
SKYDECK 527 SF
TOTAL COMMON OPEN SPACE PROVIDED **5,307 SF**

CCWSP, APPENDIX D, SECTION A.1. (A)
100 SF PER UNIT - COMMON OPEN SPACE (X64 UNITS) 6,400 SF

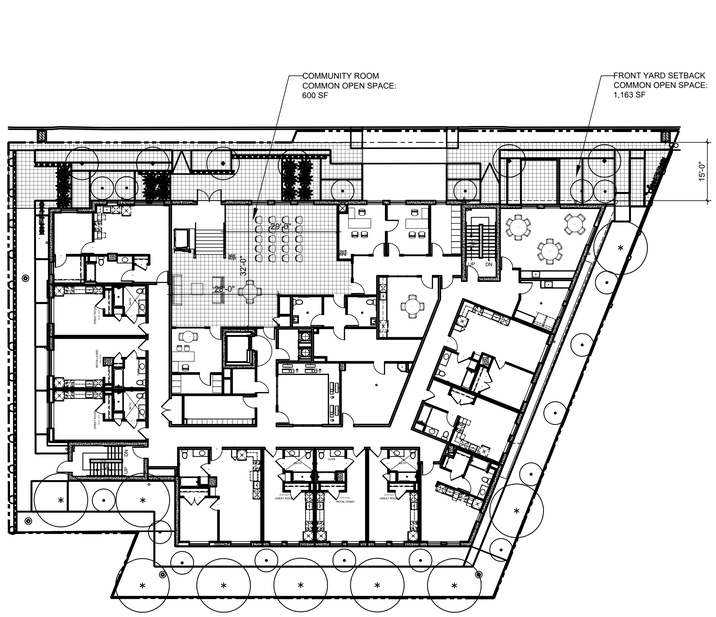
PROPOSED:
TOC ADDITIONAL INCENTIVE 17.1% REDUCTION 5,307 SF



3RD FLOOR (PODIUM) PLAN



7TH FLOOR PLAN



2ND FLOOR (UPPER GROUND FLOOR) PLAN

OPEN SPACE EXHIBIT

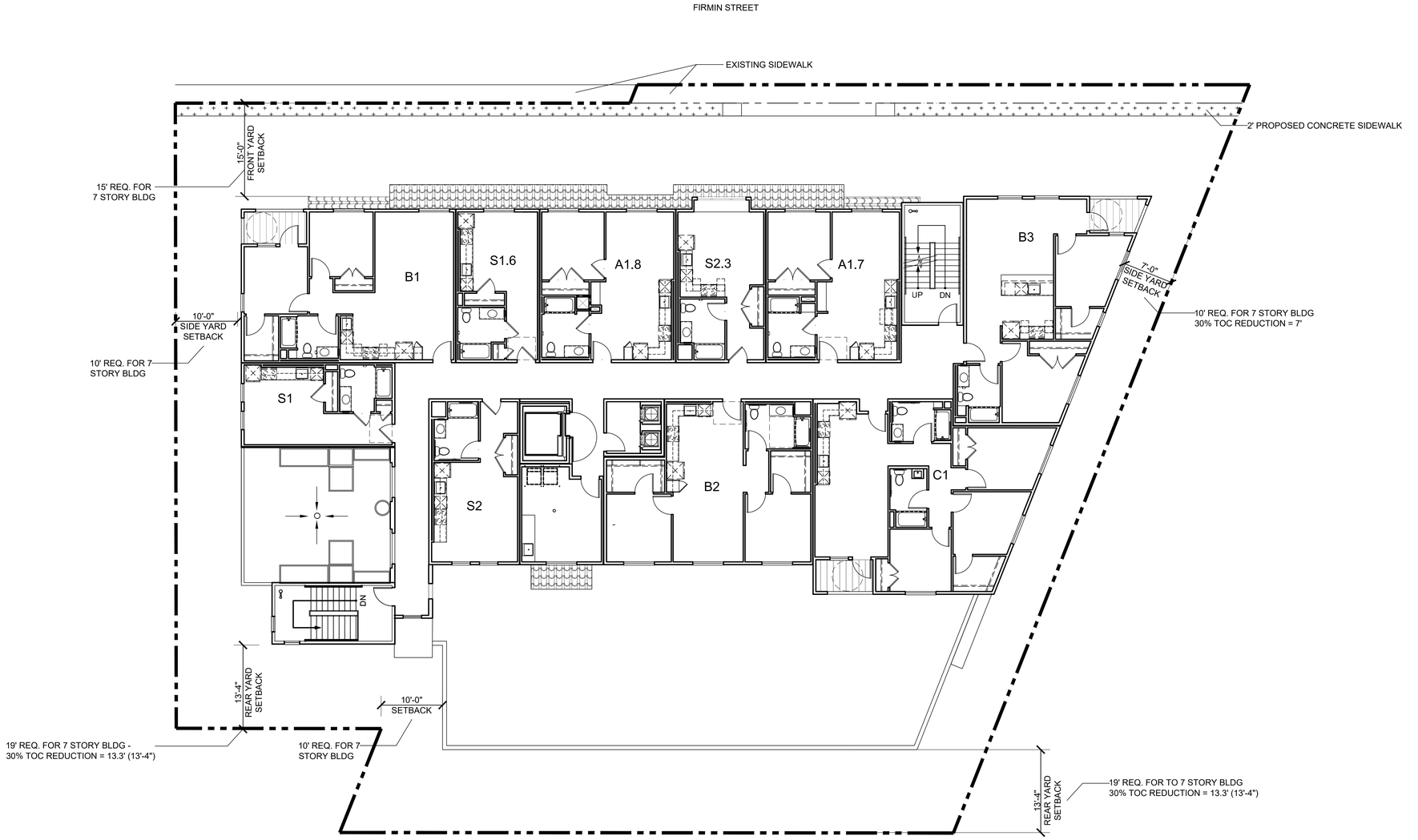
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YARD SETBACKS

SETBACKS REQUIRED
(CCWSP, SECTION 5.F. - USE & AREA REGULATIONS OF R4 ZONE)

FRONT YARD - LAMC SECTION 12.11.C.1 AND 12.10.C.1 - SAME AS REQ'D IN R3 ZONE	15 FEET
SIDE YARD - SOUTHERLY - LAMC SECTION 12.11.C.2.	10 FEET
SIDE YARD - NORTHERLY - LAMC SECTION 12.11.C.2	10 FEET
REAR YARD - LAMC SECTION 12.11.C.3	19 FEET
SETBACKS PROPOSED	
FRONT YARD	15 FEET
SIDE YARD - SOUTHERLY	10 FEET
SIDE YARD - NORTHERLY	7 FEET
TOC - TIER 3 ADDITIONAL INCENTIVE, SECTION VII.1.A.ii.2.c. - 30% DECREASE OF 2 INDIVIDUAL YARDS)	
REAR YARD	13 FEET 4 INCHES
TOC - TIER 3 ADDITIONAL INCENTIVE, SECTION VII.1.A.ii.2.c. - 30% DECREASE OF 2 INDIVIDUAL YARDS)	

SETBACK EXHIBIT

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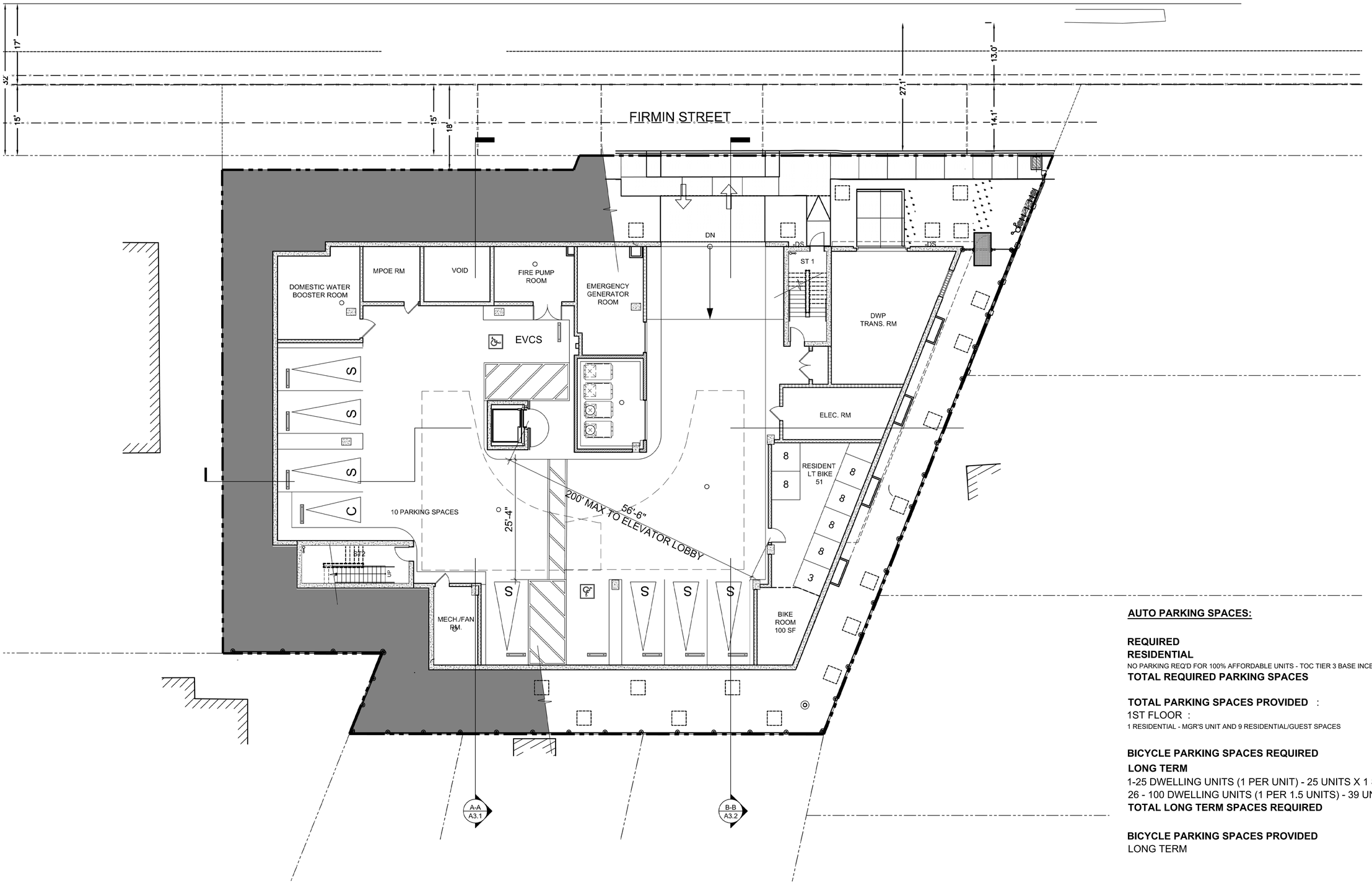
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AUTO PARKING SPACES:

REQUIRED

RESIDENTIAL	0 SPACE
NO PARKING REQ'D FOR 100% AFFORDABLE UNITS - TOC TIER 3 BASE INCENTIVE, SECTION VI.2.a.i.2.	
TOTAL REQUIRED PARKING SPACES	**0 SPACE**

TOTAL PARKING SPACES PROVIDED :

1ST FLOOR :	**10 SPACES**
1 RESIDENTIAL - MGR'S UNIT AND 9 RESIDENTIAL/GUEST SPACES	

BICYCLE PARKING SPACES REQUIRED

LONG TERM

1-25 DWELLING UNITS (1 PER UNIT) - 25 UNITS X 1 SPACE	25 SPACES
26 - 100 DWELLING UNITS (1 PER 1.5 UNITS) - 39 UNITS / 1.5 SPACES	26 SPACES
TOTAL LONG TERM SPACES REQUIRED	**51 SPACES**

BICYCLE PARKING SPACES PROVIDED

LONG TERM	**51 SPACES**

FIRST FLOOR PLAN (LOWER GROUND FLOOR)

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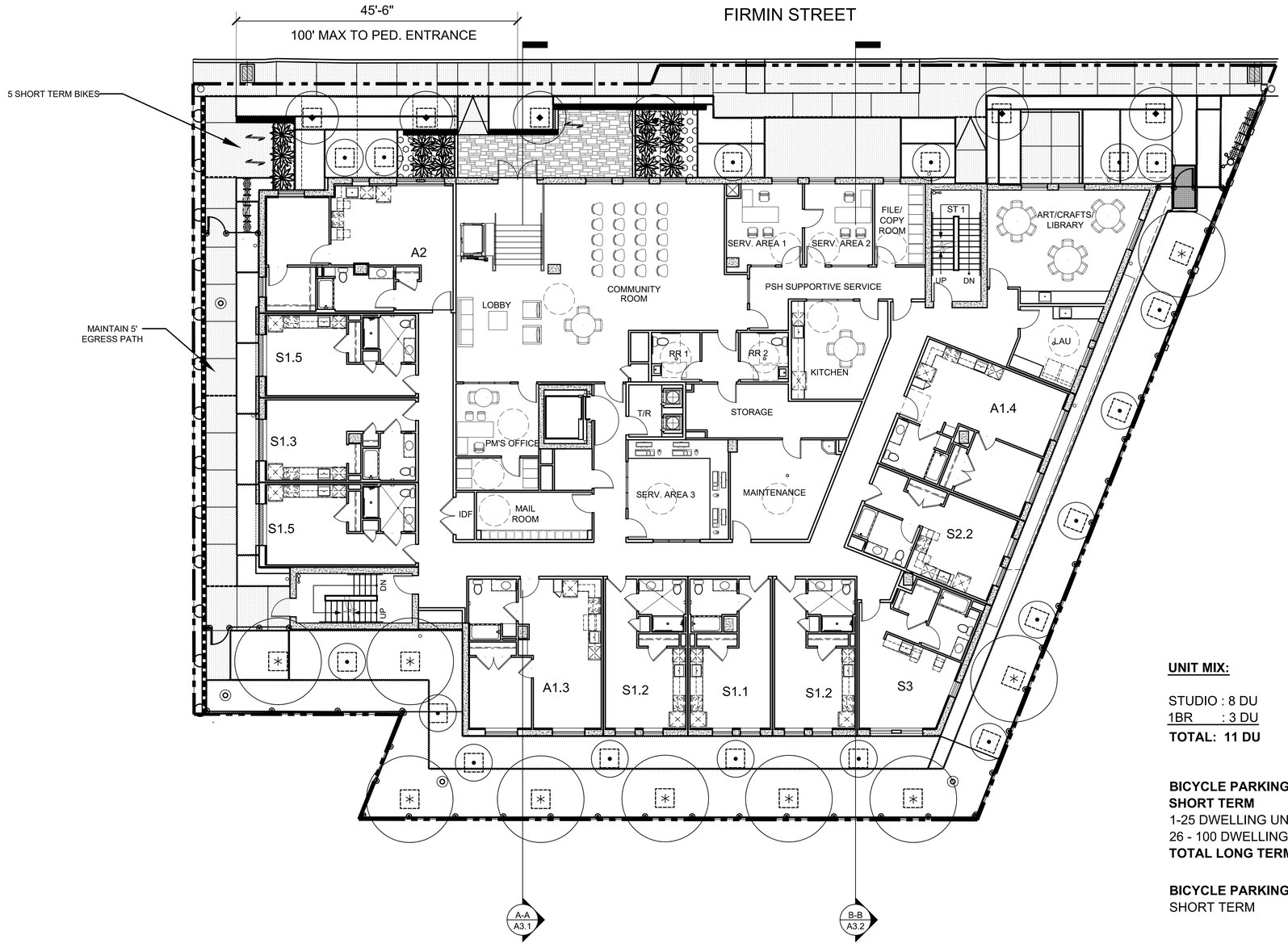
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A2.1



UNIT MIX:

STUDIO : 8 DU
1BR : 3 DU
TOTAL: 11 DU

BICYCLE PARKING SPACES REQUIRED
SHORT TERM

1-25 DWELLING UNITS (1 PER 10 UNIT) - 25 UNITS / 10 SPACE	2 SPACES
26 - 100 DWELLING UNITS (1 PER 15 UNITS) - 39 UNITS / 15 SPACES	3 SPACES
TOTAL LONG TERM SPACES REQUIRED	**5 SPACES**

BICYCLE PARKING SPACES PROVIDED

SHORT TERM	**5 SPACES**

2ND FLOOR PLAN (UPPER GROUND FLOOR)

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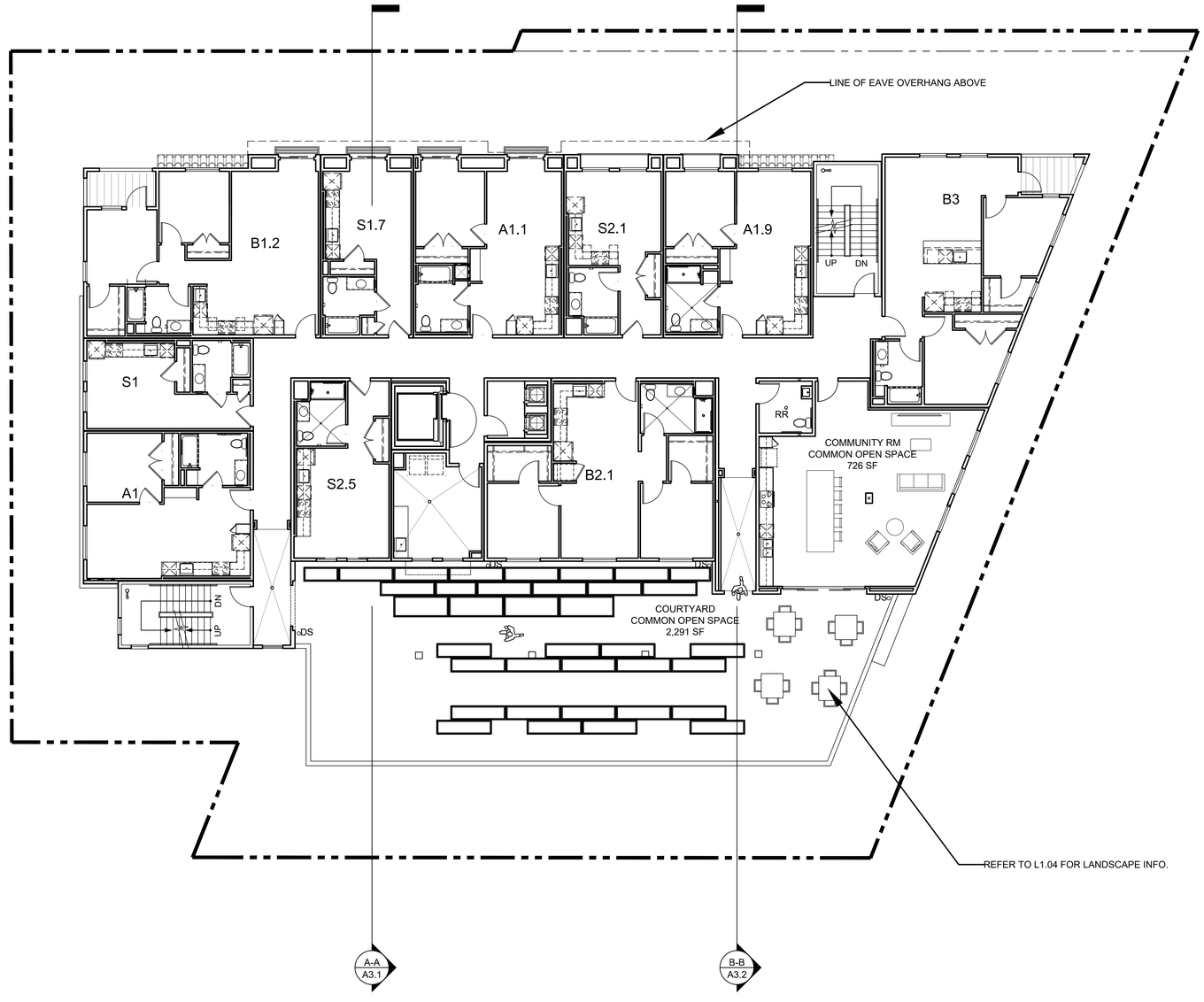
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A2.2



UNIT MIX:

STUDIO :	4 DU
1BR :	3 DU
2BR :	3 DU
TOTAL:	**10 DU**

3RD FLOOR PLAN (PODIUM)

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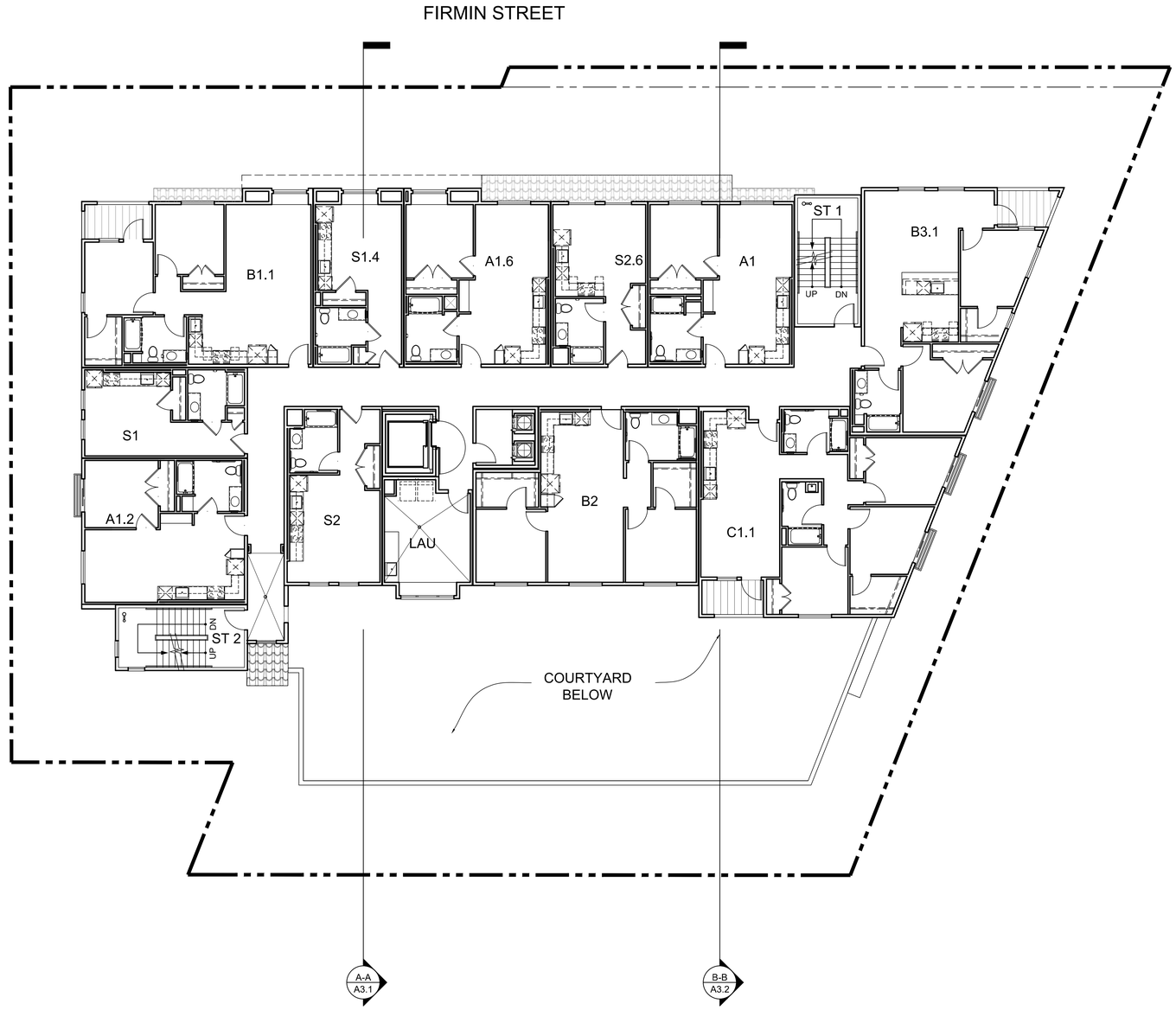
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A2.3



UNIT MIX:

STUDIO :	4 DU
1BR :	3 DU
2BR :	3 DU
3BR :	1 DU
TOTAL:	**11 DU**

4TH FLOOR PLAN

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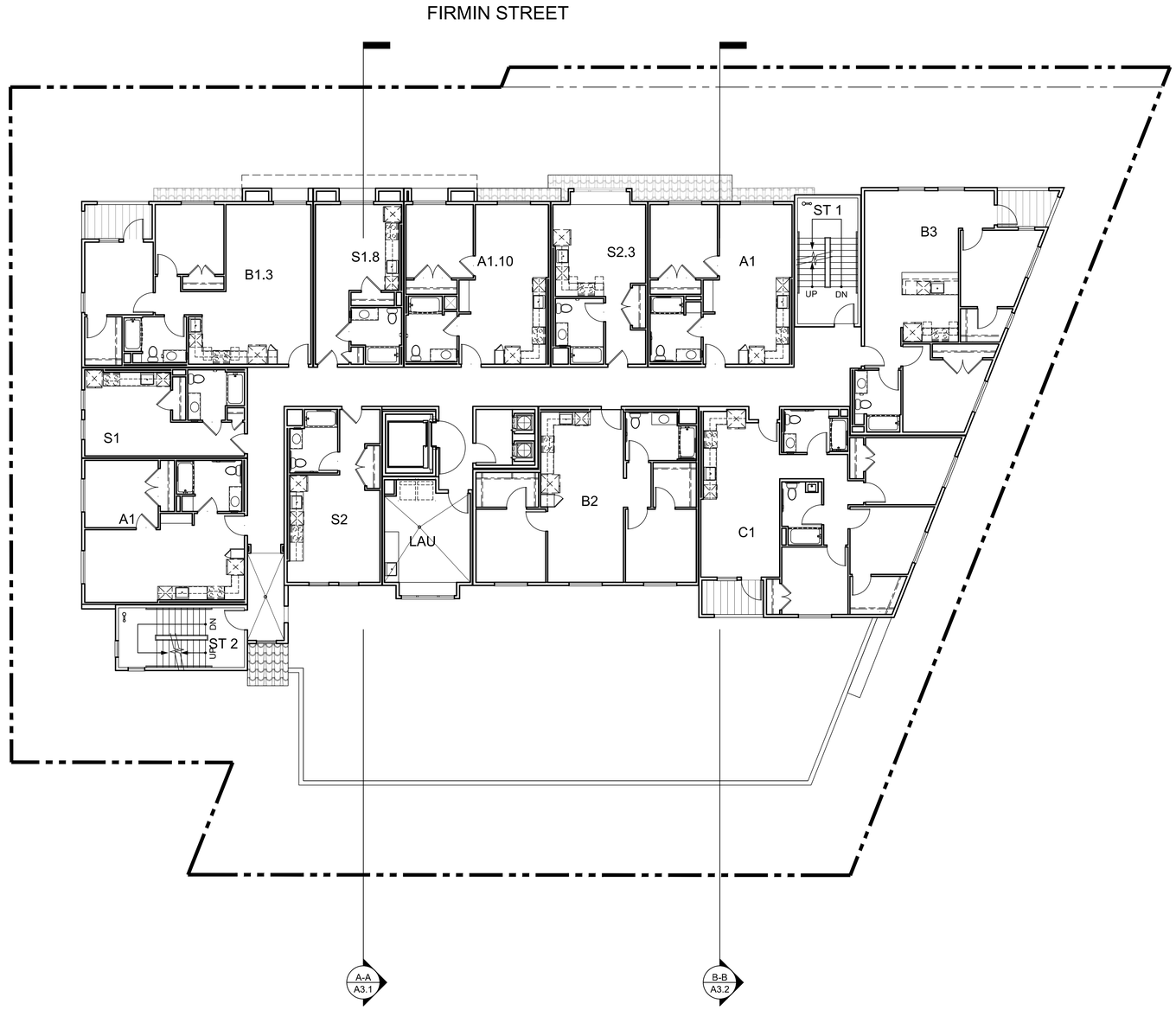
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A2.4



UNIT MIX:

STUDIO :	4 DU
1BR :	3 DU
2BR :	3 DU
3BR :	1 DU
TOTAL:	**11 DU**

5TH FLOOR PLAN

FIRMIN COURT

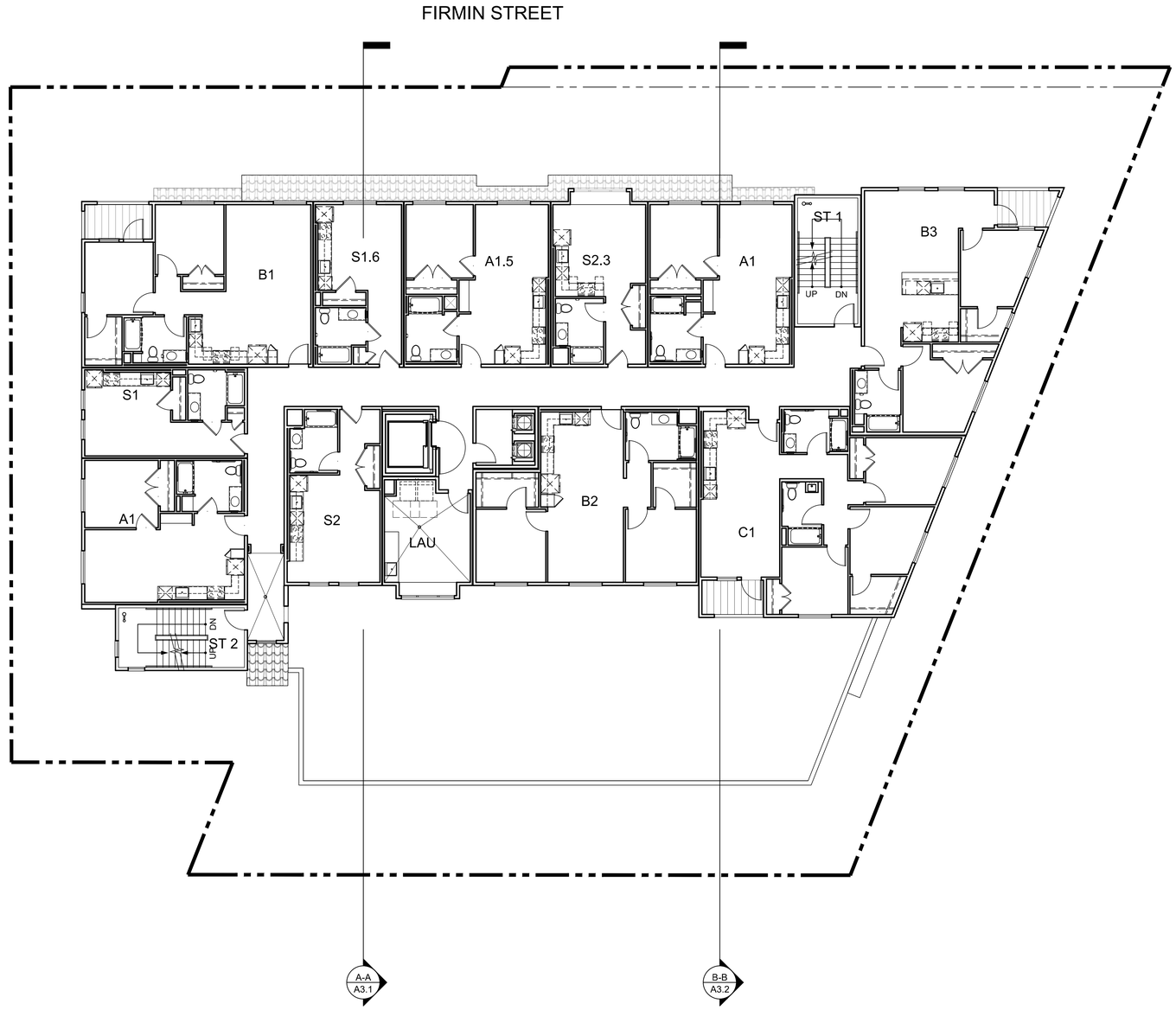
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A2.5



UNIT MIX:

STUDIO :	4 DU
1BR :	3 DU
2BR :	3 DU
3BR :	1 DU
TOTAL:	**11 DU**

6TH FLOOR PLAN

FIRMIN COURT

0 8 16 32

NORTH

DATE 11-13-2018
JOB NO. 1410.002

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A2.6



UNIT MIX:

STUDIO :	4 DU
1BR :	3 DU
2BR :	2 DU
3BR :	1 DU
TOTAL:	**10** DU

7TH FLOOR PLAN

FIRMIN COURT

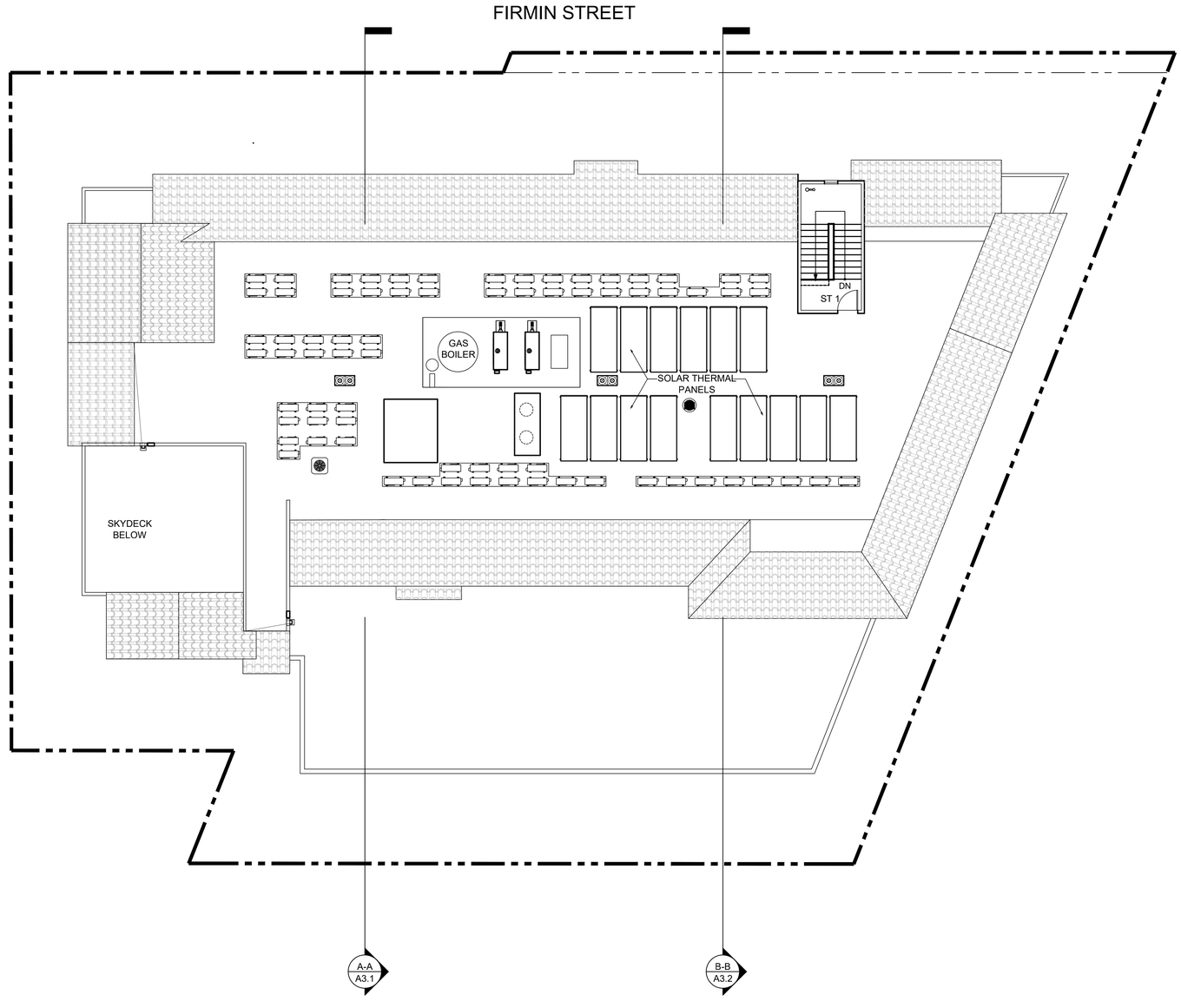
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ROOF PLAN

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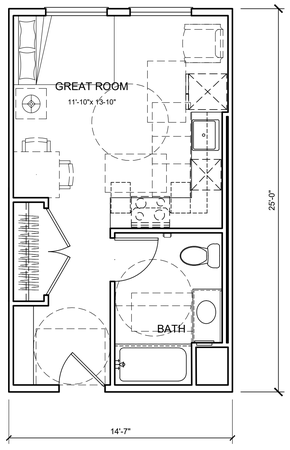
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NORTH

DATE 11-13-2018
JOB NO. 1410.002

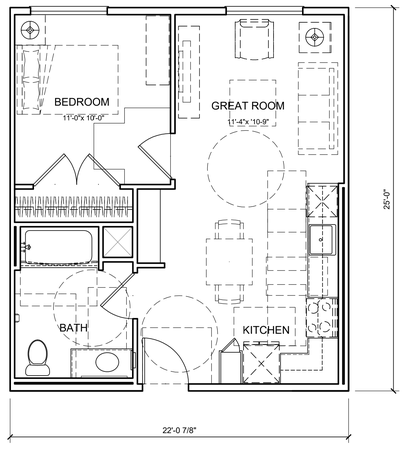
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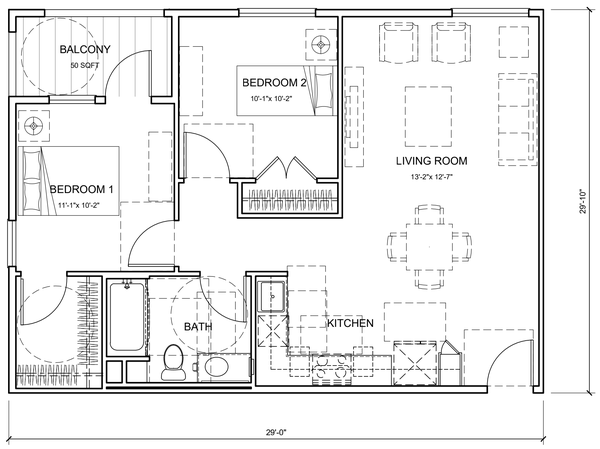
S2 - STUDIO

NET AREA: 321 SQFT



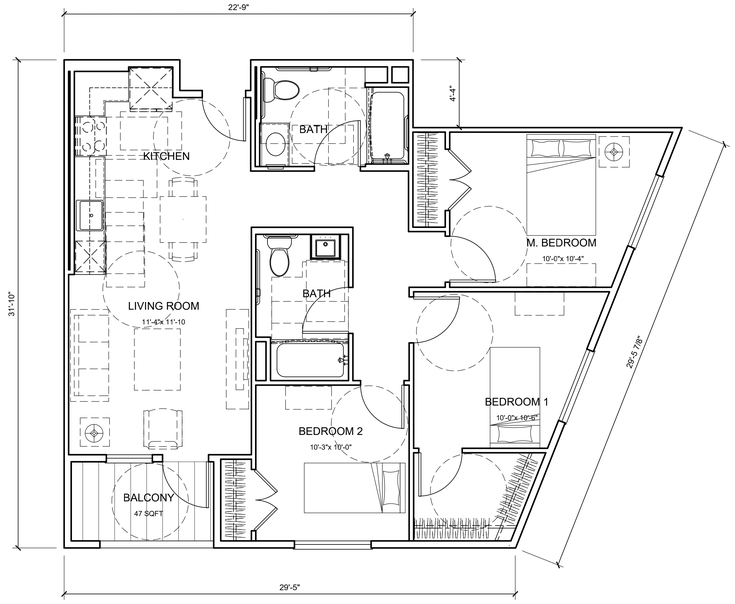
A1 - 1BR / 1BA

NET AREA: 495 SQFT



B1 - 2BR / 1BA

NET AREA: 750 SQFT



C1 - 3BR / 2BA

NET AREA: 918 SQFT

TYPICAL UNIT PLANS

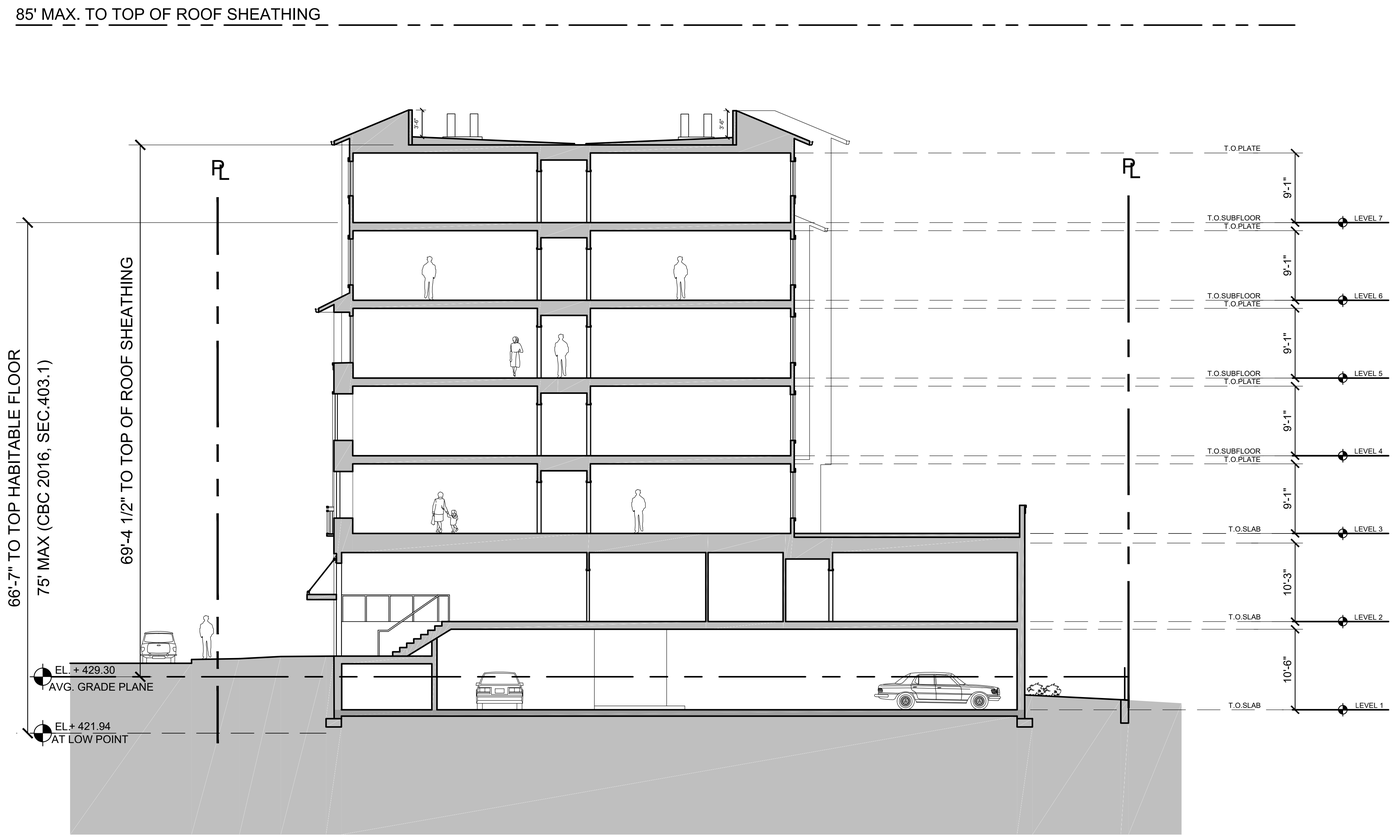
FIRMIN COURT

0 4 8 16

DATE 11-13-2018
JOB NO. 1410.002

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A2.9



SECTION A-A

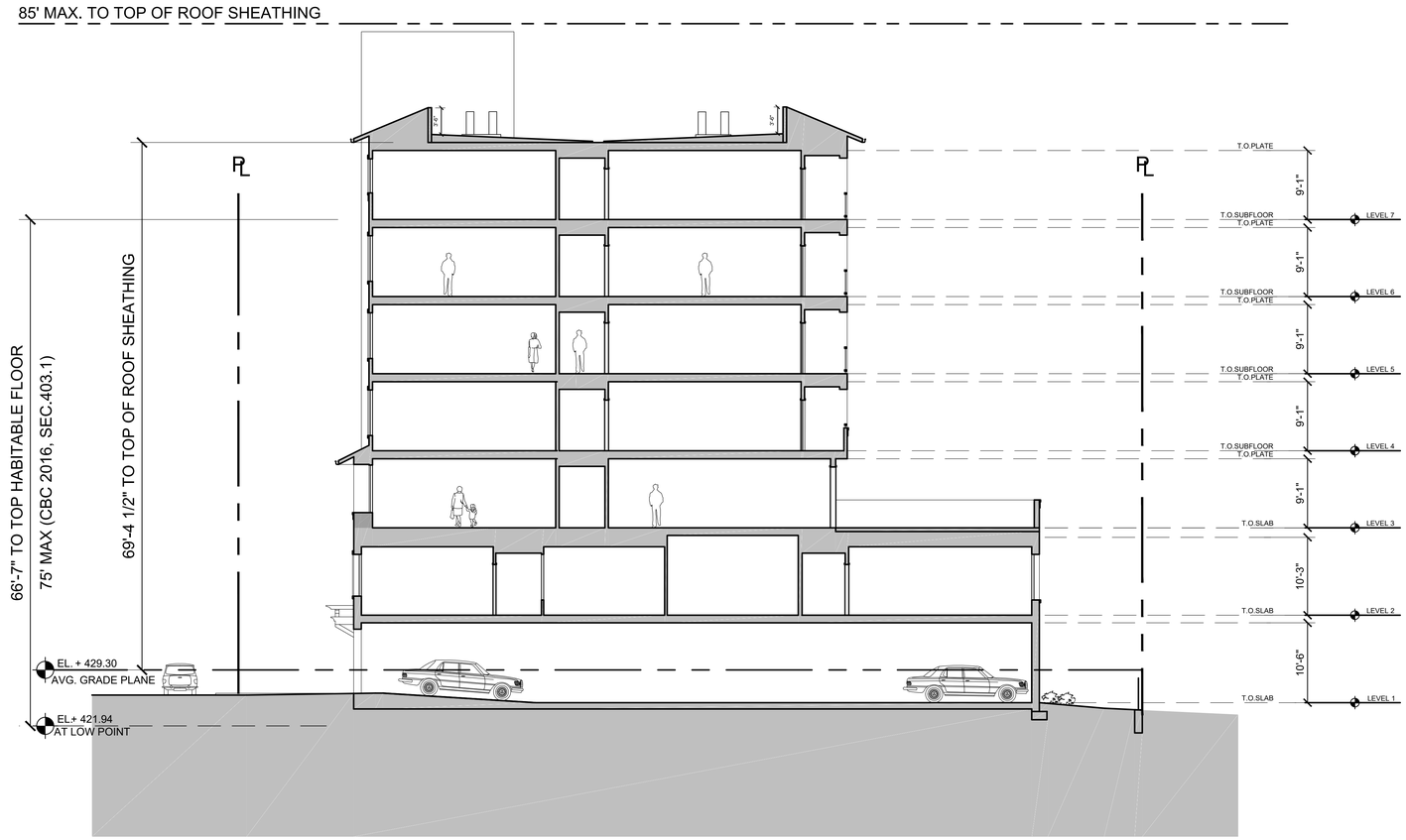
FIRMIN COURT

0 8 16 32

DATE	11-13-2018
JOB NO.	1410.002

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A3.1



SECTION B-B

FIRMIN COURT

0 8 16 32

DATE	11-13-2018
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A3.2



WEST ELEVATION (FIRMIN STREET FRONTAGE)

FIRMIN COURT

0 8 16 32

DATE	11-13-2018
JOB NO.	1410.002

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A4.1



NORTH ELEVATION

0 8 16 32

FIRMIN COURT

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A4.2



EAST ELEVATION (REAR ELEVATION)

FIRMIN COURT

0 8 16 32

DATE	11-13-2018
JOB NO.	1410.002

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A4.3



SOUTH ELEVATION

FIRMIN COURT

0 8 16 32

DATE	11-13-2018
JOB NO.	1410.002

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A4.4

LEGEND

SYMBOL	DESCRIPTION
1	CITY SIDEWALK, COLOR NATURAL GRAY, WITH 2 FT ADDITION TO EXISTING WALK
2	DRIVEWAY INTO GARAGE
3	FRONTAGE LANDSCAPE WITH SMALL TREES UNDER POWER LINES, LAGERSTROEMIA INDICA, CRAPE MYRTLE OR EQUAL, SEE PLANT PALETTE PHOTOS
4	DROUGHT TOLERANT LANDSCAPE IN SIDE YARD SEE PLANT PALETTE PHOTOS SALVIA BEE'S BLISS, SALVIA GREGGII AUTUMN SAGE, SENECIO MANDRALISCAE, WESTRINGA FRUITICOSA,
5	TALL VERTICAL TREE, CUPRESSUS SEMPERVIRENS, ITALIAN CYPRESS OR EQUAL, SEE PLANT PALETTE PHOTOS
6	MEDIUM SIZED CANOPY TREE, CERCIDIUM X 'DESERT MUSEUM', DESERT MUSEUM PALO VERDE OR EQUAL, SEE PLANT PALETTE PHOTOS
7	PERIMETER 5-6 FT HIGH STEP FENCING DOWN SLOPE, WIRE MESH FENCE, SEE PHOTOS THIS SHEET, DETAIL AND ELEVATIONS, MFG AMETCO, MODEL- GUARDIAN MESH FENCE
8	EXISTING PERIMETER FENCING AND PILASTERS TO REMAIN
9	DROUGHT TOLERANT LANDSCAPE ALONG FIRMIN SEE PLANT PALETTE PHOTOS DIANELLA TAMANICA 'VARIEGATA, ANIGOZANTHUS FLAVIDUS, FURCREA FOETIDA MEDIOPICATA, MUHLENBERGIA CAPILLARIS REGAL MIST, SENECIO MANDRALISCAE, WESTRINGA FRUITICOSA

FRONT YARD SETBACK
COMMON OPEN SPACE
LEVEL 1 AND 2 COMBINED:
1,162 SF

FRONT YARD SET BACK
15'
2'
4'-0"
8'-10"
9'-7"
5'-0"
4'-0"
5' MIN
15'-0"
22'-0"
30'-0"
5'-11"
4'
EVCS
SIDE YARD SETBACK
7'
10'
SIDE YARD SET BACK
13'-4"
REAR YARD SET BACK
10'
SET BACK
13'-4"
REAR YARD SET BACK

LANDSCAPE DATA FOR THIS LEVEL

2 STREET FRONTAGE TREES, MINIMUM SIZE 36" BOX

5 MEDIUM CANOPY TREES IN SIDE/REAR YARD, MINIMUM SIZE 36" BOX

12 VERTICAL TREES IN FRONT/SIDE/REAR YARD, MINIMUM SIZE 36" BOX

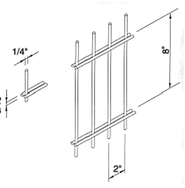
2,264 SQUARE FEET OF DROUGHT TOLERANT LANDSCAPE FOR THIS LEVEL

NO TURF GRASS IS PROPOSED FOR THIS LEVEL

ALL LANDSCAPE AREAS SHALL BE AUTOMATICALLY IRRIGATED WITH DRIP IRRIGATION AND SHALL CONFORM TO ALL MWELO REQUIREMENTS.

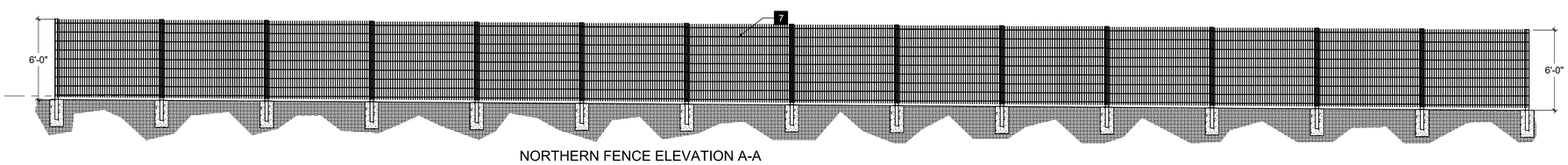


WIRE MESH FENCE

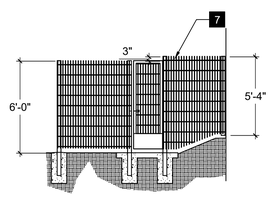


TREE COUNT REQUIREMENT

TREES REQUIRED CCWSP, APPENDIX D, SECTION C.2 ONE TREE PER DWELLING UNIT MINIMUM HEIGHT – 12', 3" CALIPER AT TIME OF PLANTING	64
TREES PROVIDED ON-SITE (36" BOX / 12' HIGH GROUND FLOOR)	35
TREES PROVIDED ON-SITE (24" BOX / 8' HIGH SKY DECK)	2
TREES PROVIDED OFF-SITE	29



NORTHERN FENCE ELEVATION A-A
SCALE 1/4"=1'-0"



FIRMIN STREET MAINTENANCE GATE B-B
SCALE 1/4"=1'-0"

LEVEL 1 LANDSCAPE PLAN

FIRMIN COURT

SCALE 1/8" = 1'-0"
0 8 16 32

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The Decro Group

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DATE 05/08/2019
JOB NO. 1410.002

NORTH

L1.01



LEGEND

SYMBOL	DESCRIPTION
1	CITY SIDEWALK, COLOR NATURAL GRAY, WITH 2 FT ADDITION TO EXISTING WALK
2	3:1 LANDSCAPE SLOPE
3	CONCRETE SEATING BENCH TO MATCH PODIUM LEVEL BENCH
4	DROUGHT TOLERANT LANDSCAPE IN SIDE YARD SEE PLANT PALETTE PHOTOS SALVIA BEE'S BLISS, SALVIA GREGGII AUTUMN SAGE, SENECIO MANDRALISCAE, WESTRINGA FRUITICOSA,
5	TALL VERTICAL TREE, CUPRESSUS SEMPERVIRENS, ITALIAN CYPRESS OR EQUAL, SEE PLANT PALETTE PHOTOS
6	MEDIUM SIZED CANOPY TREE, CERCIDIUM X 'DESERT MUSEUM', DESERT MUSEUM PALO VERDEOR EQUAL, SEE PLANT PALETTE PHOTOS
7	BUILDING ENTRY FROM STREET WITH ACCENT PAVING
8	4 SHORT TERM BICYCLE PARKING RACKS WITHIN 100 FEET OF ENTRY. 1 SHORT TERM BICYCLE PARKING RACKS WITHIN 100 FEET OF ENTRY.
9	5 FOOT WIDE EGRESS WALKWAY
10	PERIMETER 5'-4" HIGH, WIRE MESH FENCE, SEE PHOTOS THIS SHEET, DETAIL AND ELEVATIONS
11	POWER POLE
12	5-6FT HIGH PERIMETER FENCING, STEP FENCING DOWN SLOPE, WIRE MESH FENCE, MFG AMETCO, MODEL- GUARDIAN MESH FENCE SEE ELEVATIONS AND PHOTOS THIS SHEET.
13	EXISTING PERIMETER FENCING AND PILASTERS TO REMAIN
14	NEW 5FT HIGH SHOTCRETE RETAINING/SHORING WALL WITH NEIGHBOR'S WOOD FENCE BEHIND WALL
15	ENTRY WALLS, FINISH TO MATCH STUCCO BUILDING, HEIGHTS RANGE FROM 18" -48" DUE TO STREET SLOPE. SEE PLAN FOR TOP OF WALL ELEVATIONS ABOVE FINISH GRADE
16	ENTRY DRIVEWAY
17	DROUGHT TOLERANT LANDSCAPE ALONG FIRMIN SEE PLANT PALETTE PHOTOS DIANELLA TAMANICA 'VARIEGATA, ANIGOZANTHUS FLAVIDUS, FURCREA FOETIDA MEDIOPICATA, MUHLENBERGIA CAPILLARIS REGAL MIST, SENECIO MANDRALISCAE, WESTRINGA FRUITICOSA
18	FRONTAGE LANDSCAPE WITH SMALL TREES UNDER POWER LINES, LAGERSTROEMIA INDICA, CRAPE MYRTLE OR EQUAL, SEE PLANT PALETTE PHOTOS
19	EXIT GATE WITH PANIC HARDWARE, 5 FT HIGH, WIRE MES, MFG AMETCO, MODEL- GUARDIAN MESH FENCE
20	LANDSCAPE MAINTENANCE ACCESS GATE, TO BE LOCKED

LANDSCAPE DATA FOR THIS LEVELS 1 + 2 COMBINED

6 TOTAL FRONT YARD TREES, MINIMUM SIZE 3" CALIPER, 12 FT HIGH +/-36" BOX
6 TOTAL VERTICAL TREES IN FRONT YARD, MINIMUM SIZE 3" CALIPER, 12 FT HIGH +/-36" BOX
11 TOTAL VERTICAL TREES IN SIDE/REAR YARDS, MINIMUM SIZE 3" CALIPER, 12 FT HIGH +/-36" BOX
12 TOTAL MEDIUM SIZED CANOPY TREES IN SIDE/REAR YARDS, MINIMUM SIZE 3" CALIPER, 12 FT HIGH +/-36" BOX
35 TREES PROPOSED FOR THIS LEVEL
MINIMUM REQUIRED 64 - 3" CALIPER, 12 FT HIGH +/-36" BOX TREES PER SPECIFIC PLAN, REMAINDER TREES TO BE PLANTED OFFSITE

2,264 (LEVEL 1)+ 1,899 (LEVEL 2)= 4,163 SQUARE FEET OF DROUGHT TOLERANT LANDSCAPE FOR THIS LEVEL

NO TURF GRASS IS PROPOSED FOR THIS LEVEL

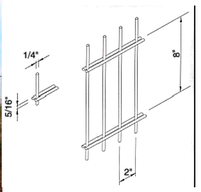
ALL LANDSCAPE AREAS SHALL BE AUTOMATICALLY IRRIGATED WITH DRIP IRRIGATION AND SHALL CONFORM TO ALL MWELO REQUIREMENTS.

TREE COUNT REQUIREMENT

TREES REQUIRED CCWSP, APPENDIX D, SECTION C.2 ONE TREE PER DWELLING UNIT MINIMUM HEIGHT – 12', 3" CALIPER AT TIME OF PLANTING	64
TREES PROVIDED ON-SITE (36" BOX / 12' HIGH GROUND FLOOR)	35
TREES PROVIDED ON-SITE (24" BOX / 8' HIGH SKY DECK)	2
TREES PROVIDED OFF-SITE	29


LOOP BIKE RACK


WIRE MESH FENCE




ENTRY PAVERS


PRECAST CONCRETE BENCH

LEVEL 1+2 LANDSCAPE PLAN

FIRMIN COURT

FONG HART SCHNEIDER + PARTNERS
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DAHLIN
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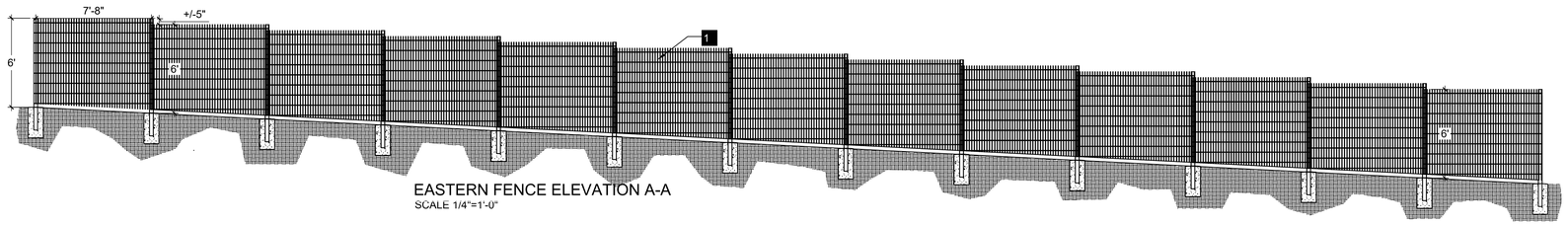
SCALE 1/4" = 1'-0"
0 4 8 16
NORTH

DATE 05/08/2019
JOB NO. 1410.002

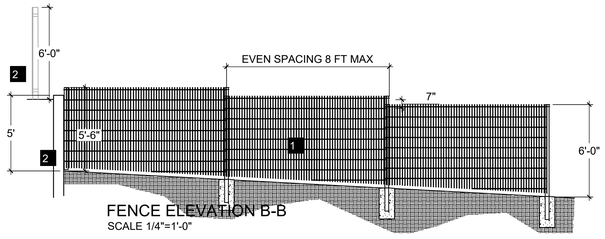
L1.02

LEGEND

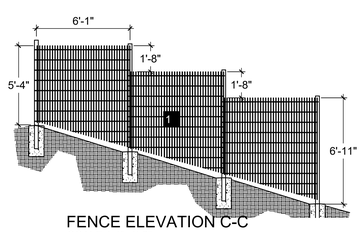
SYMBOL	DESCRIPTION
1	5-6FT HIGH PERIMETER FENCING, STEP FENCING DOWN SLOPE, WIRE MESH FENCE, MFG AMETCO, MODEL-GUARDIAN MESH FENCE SEE ELEVATIONS AND PHOTOS THIS SHEET.
2	NEW 5FT HIGH SHOTCRETE RETAINING/SHORING WALL WITH NEIGHBOR'S WOOD FENCE BEHIND WALL



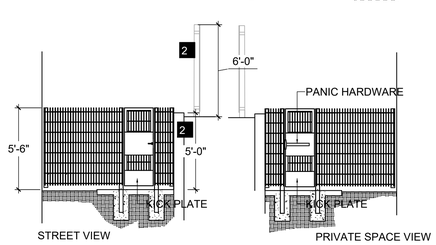
EASTERN FENCE ELEVATION A-A
SCALE 1/4"=1'-0"



FENCE ELEVATION B-B
SCALE 1/4"=1'-0"



FENCE ELEVATION C-C
SCALE 1/4"=1'-0"

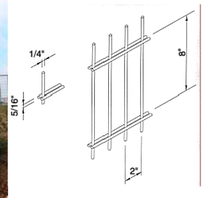


FIRMIN STREET EXIT GATE D-D
SCALE 1/4"=1'-0"



LOOP BIKE RACK

WIRE MESH FENCE





ENTRY PAVERS



PRECAST CONCRETE BENCH

LEVEL 1+2 FENCE ELEVATIONS

FIRMIN COURT

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SCALE 1/4" = 1'-0"
0 4 8 16
NORTH

DATE 11-08-2018
JOB NO. 1410.002

L1.03



LEGEND

SYMBOL	DESCRIPTION
1	CAST IN PLACE CONCRETE PAVING, INTEGRAL COLOR, TOPCAST #5 AND SANDBLAST FINISHES
2	RAISED PREFABRICATED PLANTERS FOR DROUGHT TOLERANT LANDSCAPE, SEE PLANT PALETTE PHOTOS DROUGHT TOLERANT LANDSCAPE ON PODIUM SEE PLANT PALETTE PHOTOS DIANELLA TAMANICA 'VARIEGATA, ANIGOZANTHUS FLAVIDUS, FURCREA FOETIDA MEDIOPICATA, MUHLENBERGIA CAPILLARIS REGAL MIST, SENECIO MANDRALISCAE, WESTRINGA FRUITICOSA FIBERGLASS PLANTER SIZES, 2 FT X 8FT X 2.5 FT HIGH, 2FT X 6FT X 2.5 FT HIGH, 3FT X 8FT X 2.5 FT HIGH FOR ORNAMENTAL PLANTINGS, FIBERGLASS PLANTERS 2FT X 8 FT X 2FT HIGH FOR COMMUNITY GARDEN
3	PERIMETER LANDSCAPE SEE LEVEL 1+2 PLANS
4	TABLES, UMBRELLA AND SEATING
5	ACCESSIBLE TABLES, UMBRELLA AND SEATING
6	SAND BLAST FINISHED PAVING BANDS
7	BUILDING ENTRY FROM COURTYARD
8	RAISED PREFABRICATED PLANTERS FOR COMMUNITY GARDEN
9	PLAY AREA, POSSIBLE USES, TABLE TENNIS, HOPSCOTCH, YOGA OR TUMBLING MATS CHALK ART, CHALK BOARD, CORN HOLE BEAN BAG TOSS, ACCESSIBLE SAND TABLE

LANDSCAPE DATA FOR PODIUM LEVEL

290 SQUARE FEET OF DROUGHT TOLERANT LANDSCAPE FOR THIS LEVEL

2291 SQUARE FEET OF COMMON OPEN SPACE
LANDSCAPE AREA IS 574 SF, 432 SF OF ORNAMENTAL LANDSCAPE , 142 SF OF COMMUNITY GARDEN

NO TURF GRASS IS PROPOSED FOR THIS LEVEL

ALL LANDSCAPE AREAS SHALL BE IRRIGATED AND SHALL CONFORM TO ALL MWELO REQUIREMENTS.

LINEAR FIBERGLASS PLANTERS, VARYING WIDTHS AND HEIGHTS
LINEAR FIBERGLASS PLANTERS FINISHES

TREE COUNT REQUIREMENT

TREES REQUIRED CCWSP, APPENDIX D, SECTION C.2 ONE TREE PER DWELLING UNIT MINIMUM HEIGHT – 12', 3" CALIPER AT TIME OF PLANTING	64
TREES PROVIDED ON-SITE (36" BOX / 12' HIGH GROUND FLOOR)	35
TREES PROVIDED ON-SITE (24" BOX / 8' HIGH SKY DECK)	2
TREES PROVIDED OFF-SITE	29

PODIUM (3RD) FLOOR PLAN

SCALE 1/4" = 1'-0"
0 4 8 16

NORTH

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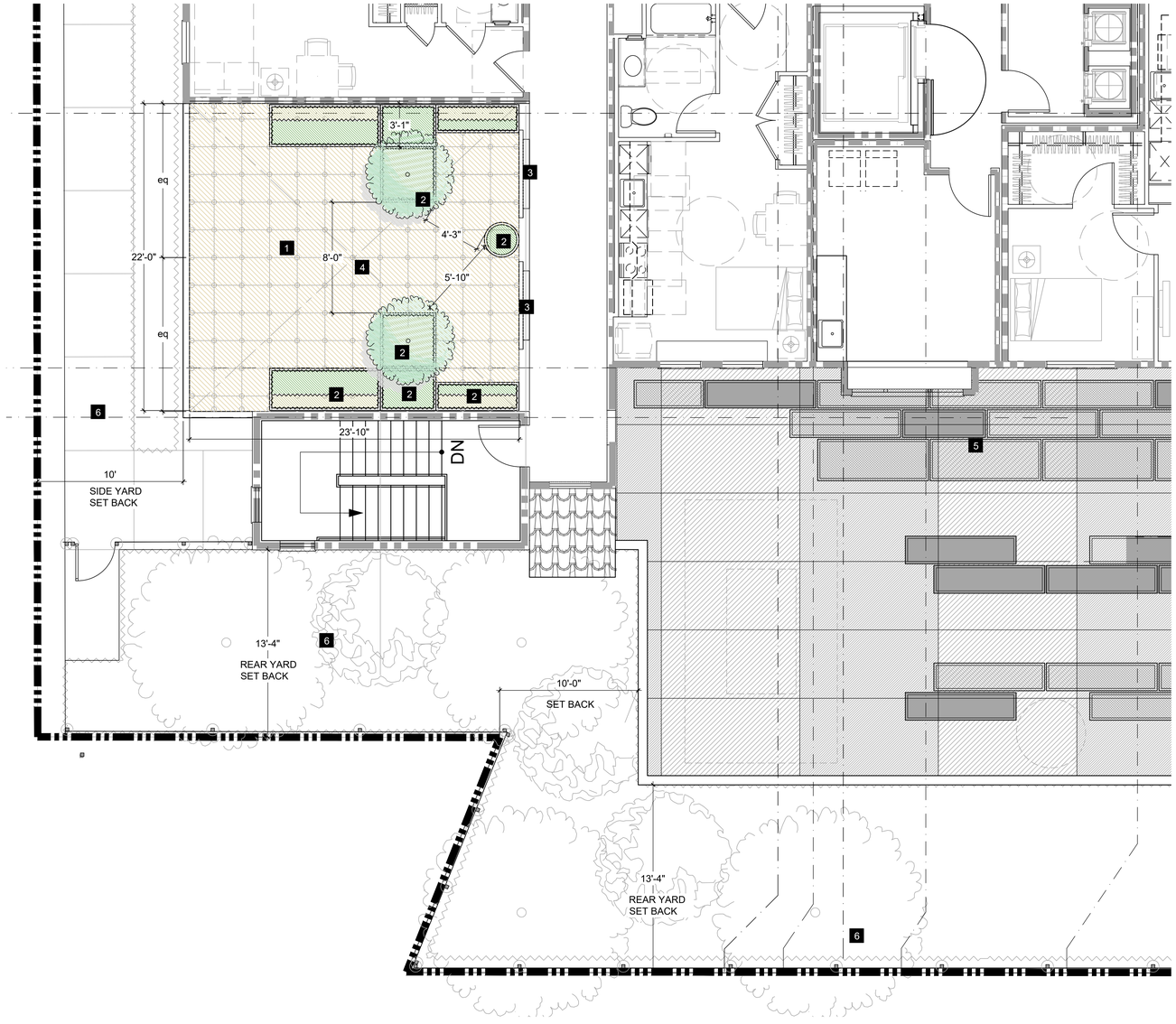
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L1.04

FIRMIN COURT



LEGEND

SYMBOL	DESCRIPTION
1	PEDESTAL PAVERS SIZE, 24 x 24
2	FIBERGLASS PLANTERS, WITH SMALL 24" BOX TREES SEE PLANTING PLAN FOR SIZES AND WEIGHTS
3	ACCESSIBLE PATH OF TRAVEL
4	SUB PAVING DRAIN SEE PLUMBING PLANS
5	PODIUM COURTYARD LEVEL BELOW
6	PERIMETER LANDSCAPE LEVEL BELOW

LANDSCAPE DATA FOR SKY DECK LEVEL

60 SQUARE FEET OF DROUGHT TOLERANT LANDSCAPE FOR THIS LEVEL

527 SQUARE FEET OF COMMON OPEN SPACE

NO TURF GRASS IS PROPOSED FOR THIS LEVEL

ALL LANDSCAPE AREAS SHALL BE AUTOMATICALLY IRRIGATED WITH DRIP IRRIGATION AND SHALL CONFORM TO ALL MWELO REQUIREMENTS.

TOTAL PROPOSED TREES FOR SKYDECK
2-24" BOX - ARBUTUS MARINA, MARINA STRAWBERRY TREE

TREE COUNT REQUIREMENT FOR PRO□ECT

TREES REQUIRED CCWSP, APPENDIX D, SECTION C.2 ONE TREE PER DWELLING UNIT MINIMUM HEIGHT – 12', 3" CALIPER AT TIME OF PLANTING	64
TREES PROVIDED ON-SITE (36" BOX / 12' HIGH GROUND FLOOR)	35
TREES PROVIDED ON-SITE (24" BOX / 8' HIGH SKY DECK)	2
TREES PROVIDED OFF-SITE	29

SKY DECK (7TH) FLOOR PLAN

FIRMIN COURT

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0 4 8 16

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JOB NO. 1410.002

NORTH

L1.05



ARBUTUS MARINA
MARINA STRAWBERRY TREE



CERCIDIUM X 'DESERT MUSEUM'
DESERT MUSEUM PALO VERDE



CUPRESSUS SEMPERVIRENS,
ITALIAN CYPRESS OR EQUAL



LAGERSTROEMIA INDICA
CRAPE MYRTLE OR EQUAL,



DIANELLA TASMANICA 'VARIEGATA'
(WHITE STRIPED TASMAN FLAX LILY)



PENNISETUM 'FAIRY TAILS'
(EVERGREEN FOUNTAIN GRASS)



SENECIO MANDRALISCAE
(BLUE FINGERS SENECIO)



FURCRAEA FOETIDA 'MEDIOPICTA' (NCN)



AGAVE SPP. (AGAVE)



ANIGOZANTHOS SPP.
(KANGEROO PAW)



MUHLENBERGIA CAPILLARIS 'REGAL MIST'
(REGAL MIST GULF COAST MUHLY GRASS)



MUHLENBERGIA RIGENS (DEER GRASS)



SALVIA APIANA (PURPLE SAGE)



SALVIA GREGGII AUTUMN SAGE



KNIPHOFA UVARIA (RED HOT POKER)



WESTRINGIA FRUTICOSA (COAST ROSEMARY)



PHORMIUM TENAX
(NEW ZEALAND FLAX)



SALVIA SPATHACEA (HUMMINGBIRD SAGE)



HELICTOTRICHON SEMPERVIRENS
(BLUE OAT GRASS)



NASSELLA PULCHRA
(PURPLE NEEDLE GRASS)

PLANT PALETTE

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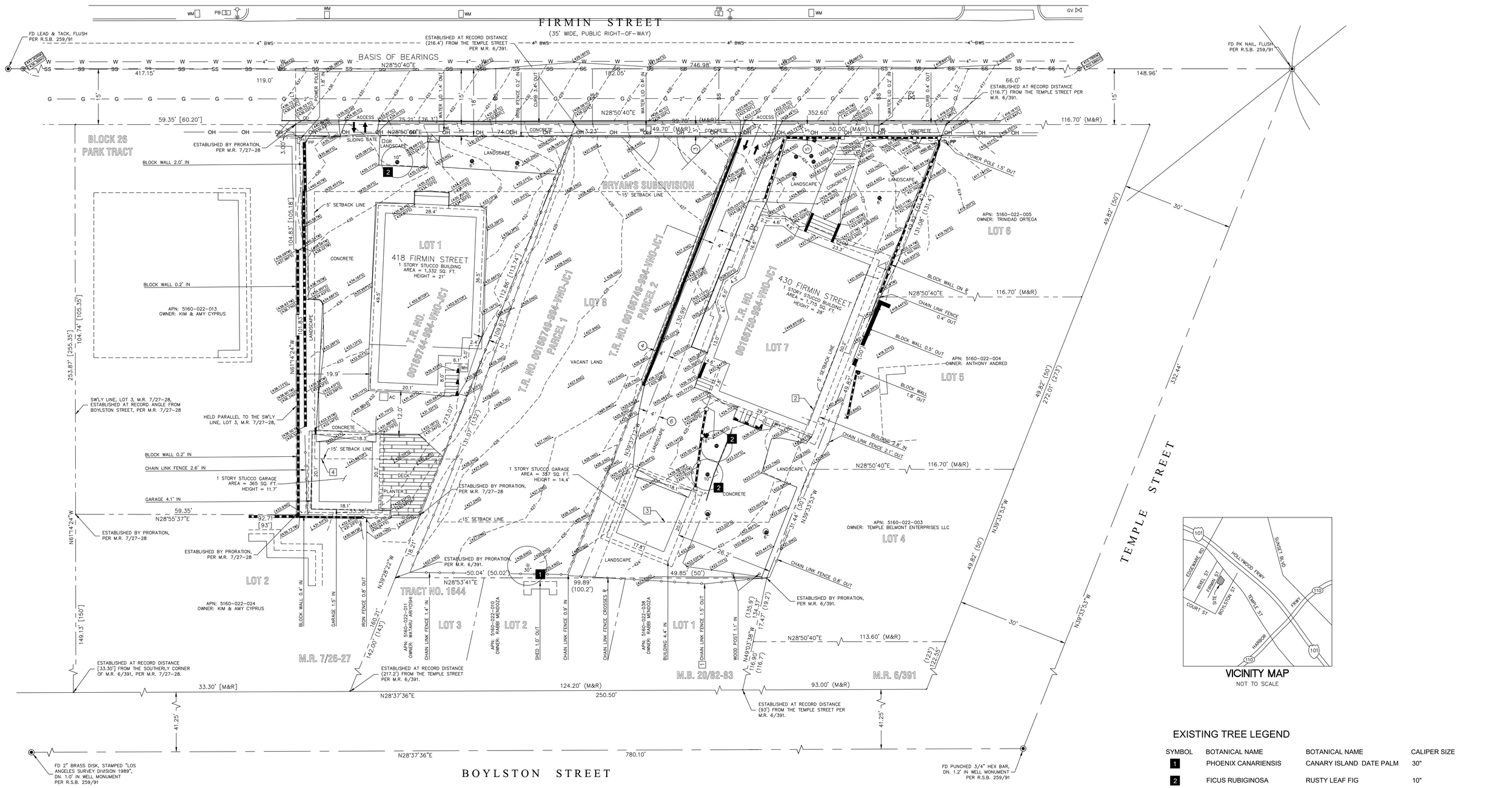
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L1.06



EXISTING TREE LEGEND

SYMBOL	BOTANICAL NAME	BOTANICAL NAME	CALIPER SIZE
1	PHOENIX CANARIENSIS	CANARY ISLAND DATE PALM	30"
2	FICUS RUBIGINOSA	RUSTY LEAF FIG	10"
1	PERSEA AMERICANA	CALIFORNIA AVOCADO	10"
1	STRELITZIA NICOLAI	GIANT BIRD OF PARADISE	10"

EXISTING TREE INVENTORY PLAN FOR ENVIRONMENTAL ASSESSMENT

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SCALE 1/4" = 1'-0"
0 4 8 16

DATE	11-08-2018
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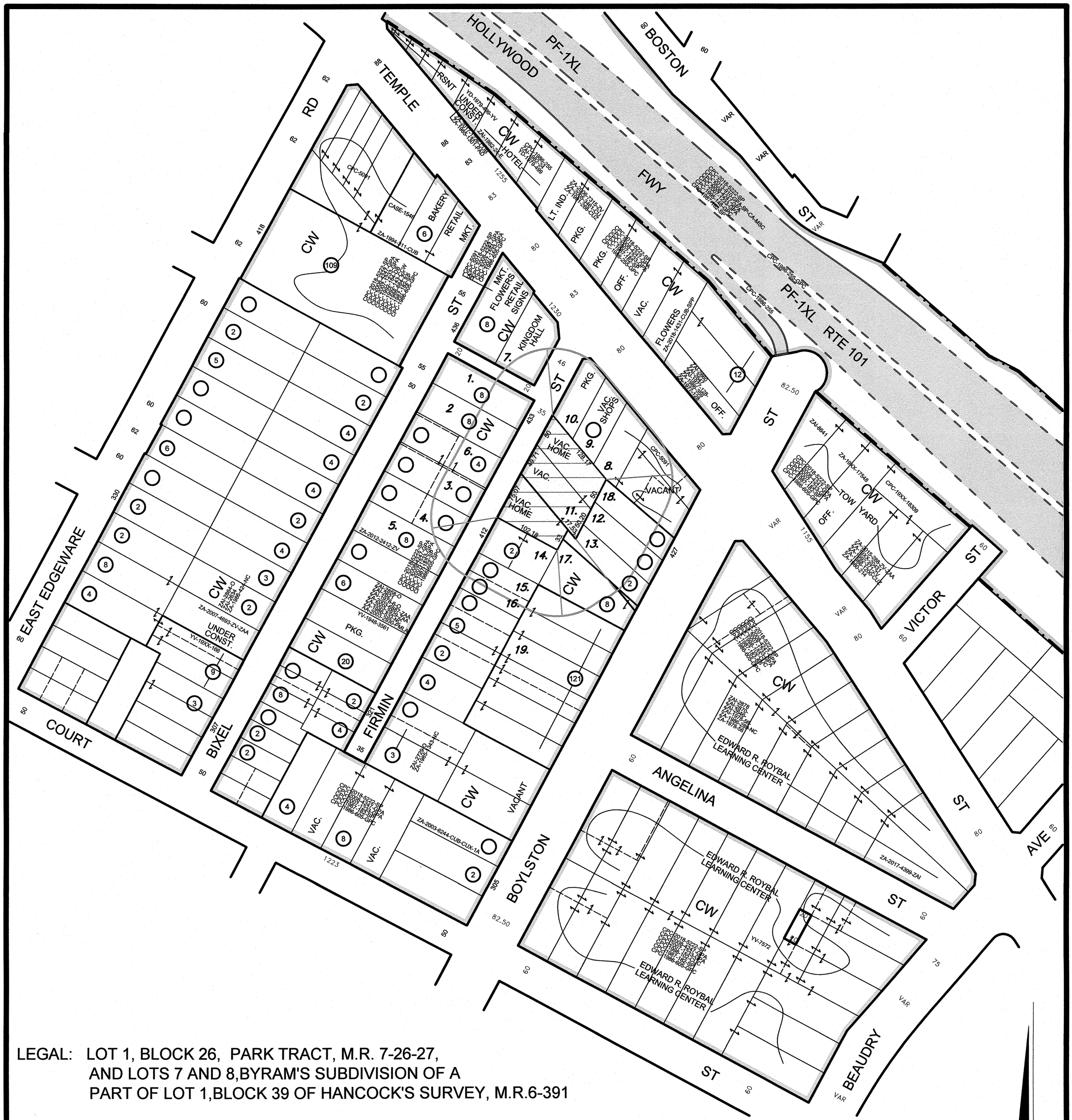
HUNSON

L1.07

EXHIBIT C

Radius, Vicinity and ZIMAS Maps

Case No. DIR-2018-3691-TOC-SPP-WDI-1A



LEGAL: LOT 1, BLOCK 26, PARK TRACT, M.R. 7-26-27,
AND LOTS 7 AND 8,BYRAM'S SUBDIVISION OF A
PART OF LOT 1,BLOCK 39 OF HANCOCK'S SURVEY, M.R.6-391

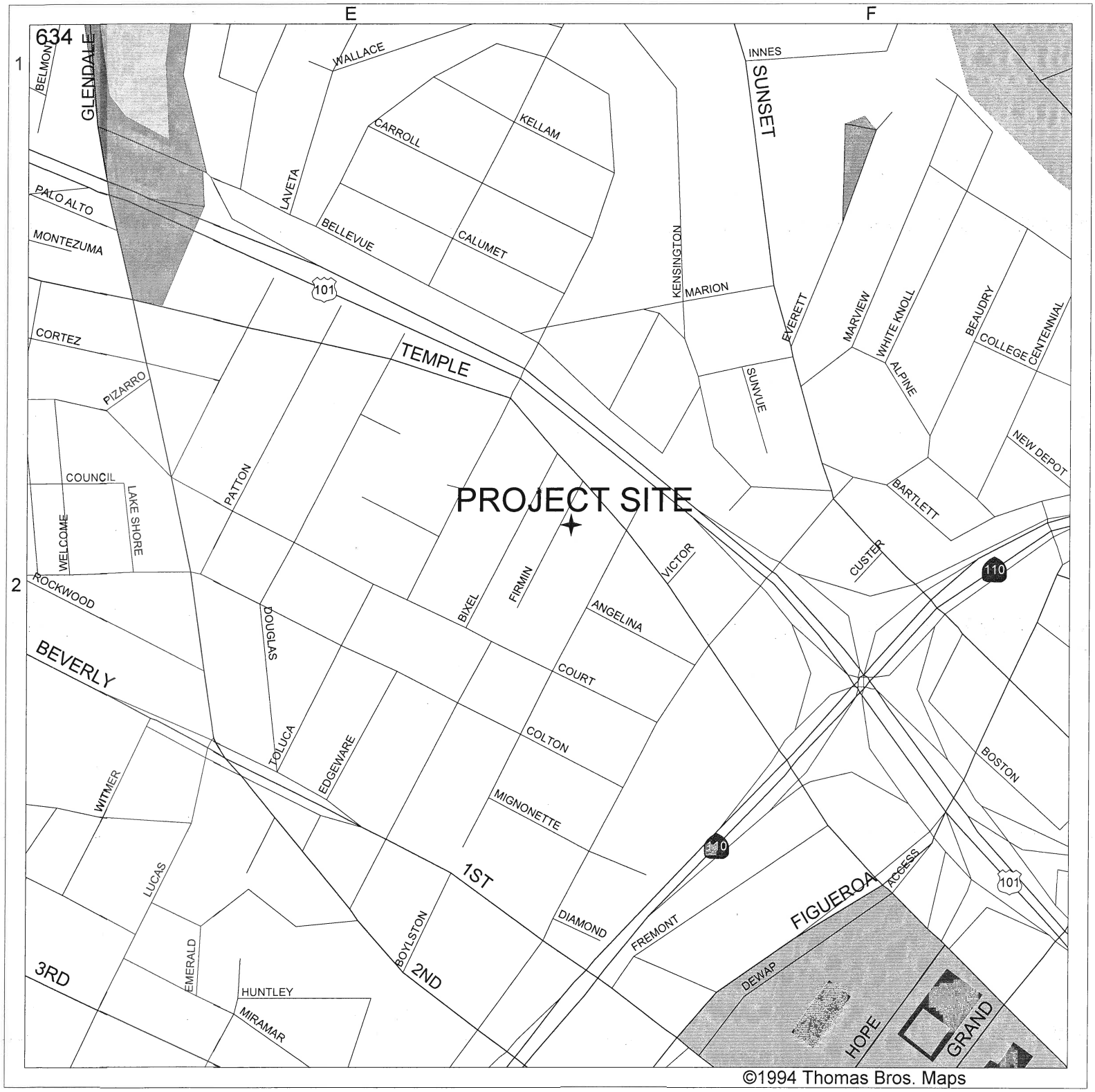
PROJECT PERMIT COMPLIANCE
TRANSIT ORIENTED COMMUNITES
WAIVER OF DEDICATION AND IMPROVEMENT

C.D. 1
C.T. 2080.00
P.A. WESTLAKE

GC MAPPING SERVICE, INC.
3055 WEST VALLEY BOULEVARD
ALHAMBRA CA 91803
(626) 441-1080 FAX (626) 441-8850

0.40 NET AC.

CASE NO.
DATE: 06-11-2019
SCALE: 1" = 100'
USES FIELD
D.M. 135 A 211
T.B. PAGE: 634 GRID: E-2



VICINITY MAP

SITE : 418, 426 & 430 N. FIRMIN STREET

GC MAPPING SERVICE, INC.

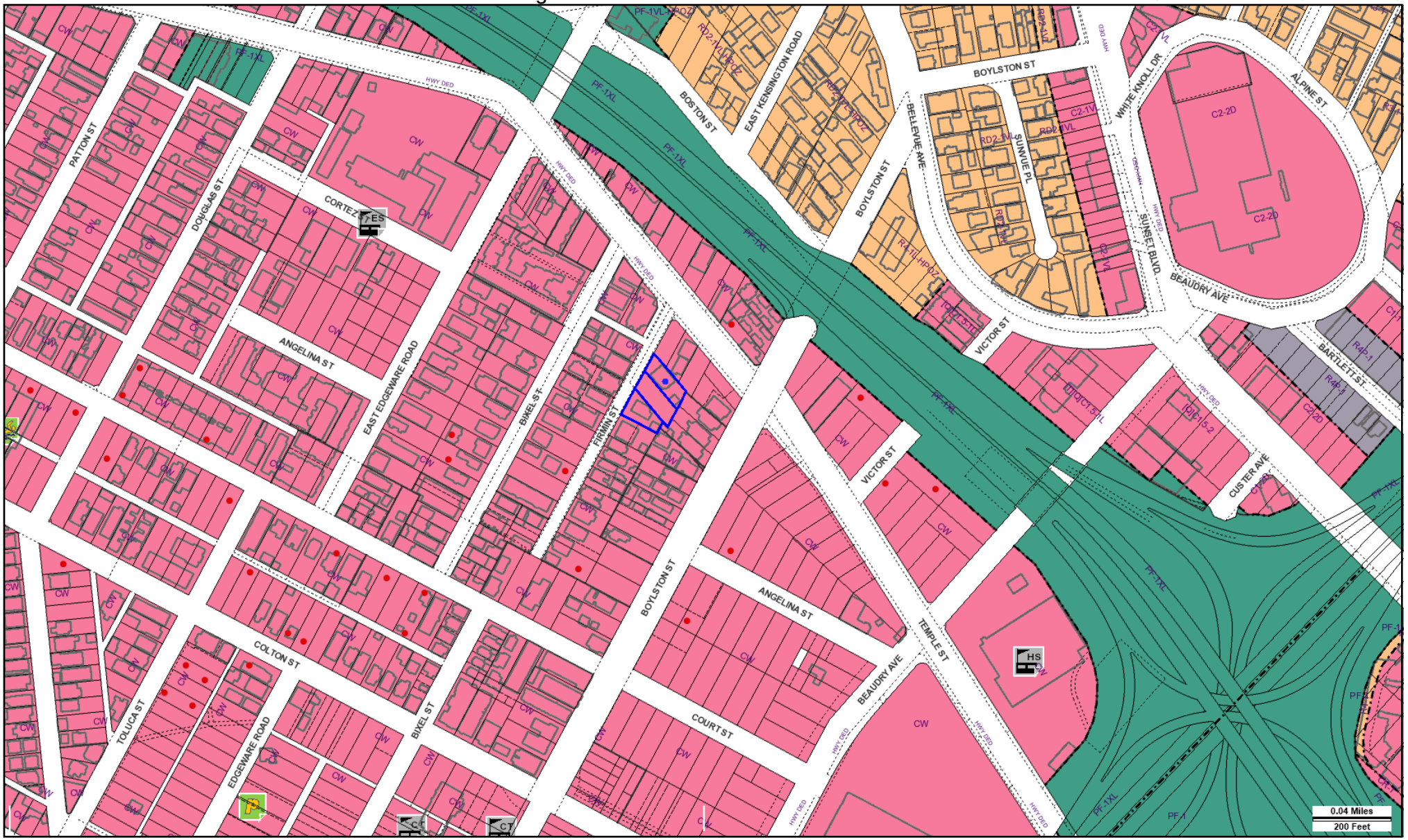
3055 WEST VALLEY BOULEVARD
ALHAMBRA CA 91803
(626) 441-1080, FAX (626) 441-8850
GCMAPPING@RADIUSMAPS.COM

ZIMAS INTRANET

Generalized Zoning

06/21/2019

City of Los Angeles
Department of City Planning



Address: 430 N FIRMIN ST

Tract: BYRAM'S SUBDIVISION OF A PART OF LOT 1, BLOCK 39 OF HANCOCK'S SURVEY

Zoning: CW

APN: 5160022006

Block: None

General Plan: Medium Residential

PIN #: 135A211 105

Lot: FR 7

Arb: None

N
W E
S

Streets Copyright (c) Thomas Brothers Maps, Inc.

EXHIBIT D

Site Photos

Case No. DIR-2018-3691-TOC-SPP-WDI-1A

SITE PHOTO EXHIBIT
Site Address: 418, 426, 430 N. FIRMIN STREET, LOS ANGELES, CALIFORNIA 90026
Applicant: Firmin Court, L.P.





1. Street frontage of 418, 426, 430 N. Firmin Street, facing south.



2. Street frontage of 430 N. Firmin Street, facing east.



3. Street frontage of 426 N. Firmin Street, facing east.



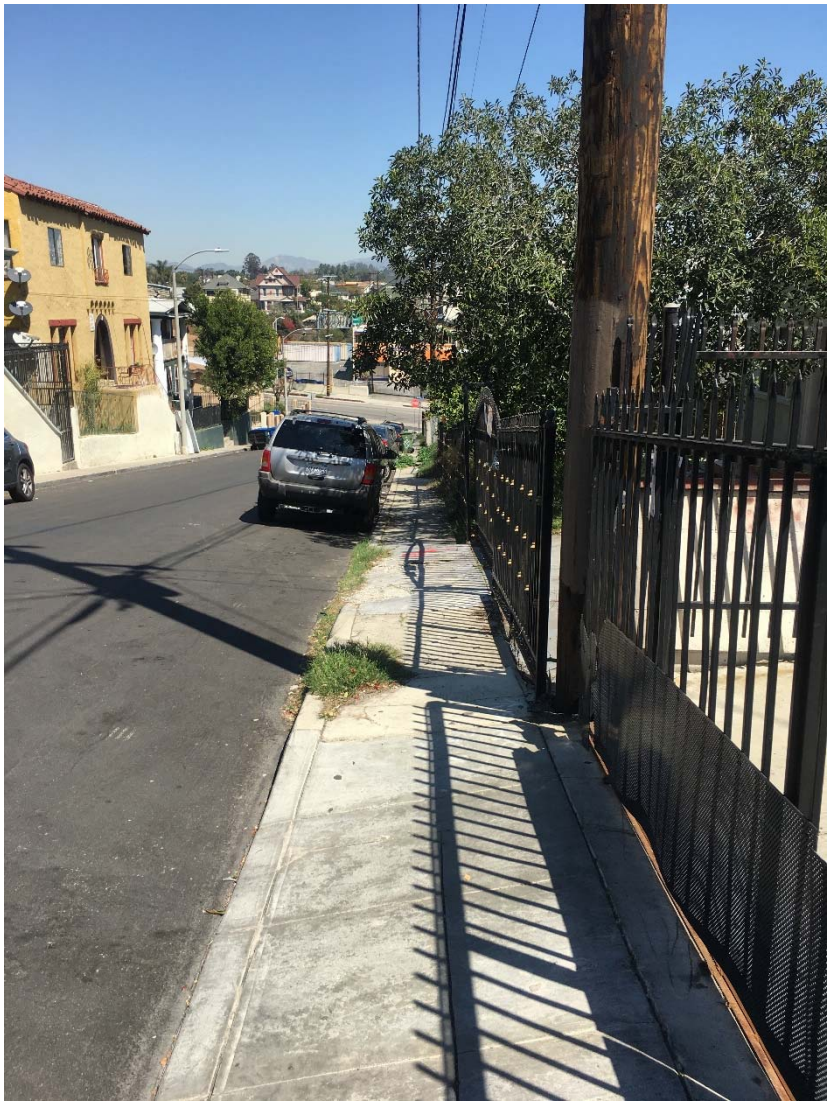
4. Street frontage of 418 N. Firmin Street, facing east.



5. View of Property (414 N. Firmin Street) adjacent to Project Site on N. Firmin Street, facing east.



6. Southwest corner of Temple Street and Firmin Street.



7. View of approx. 3 ft sidewalk parallel to Project Site on Firmin Street., facing north.



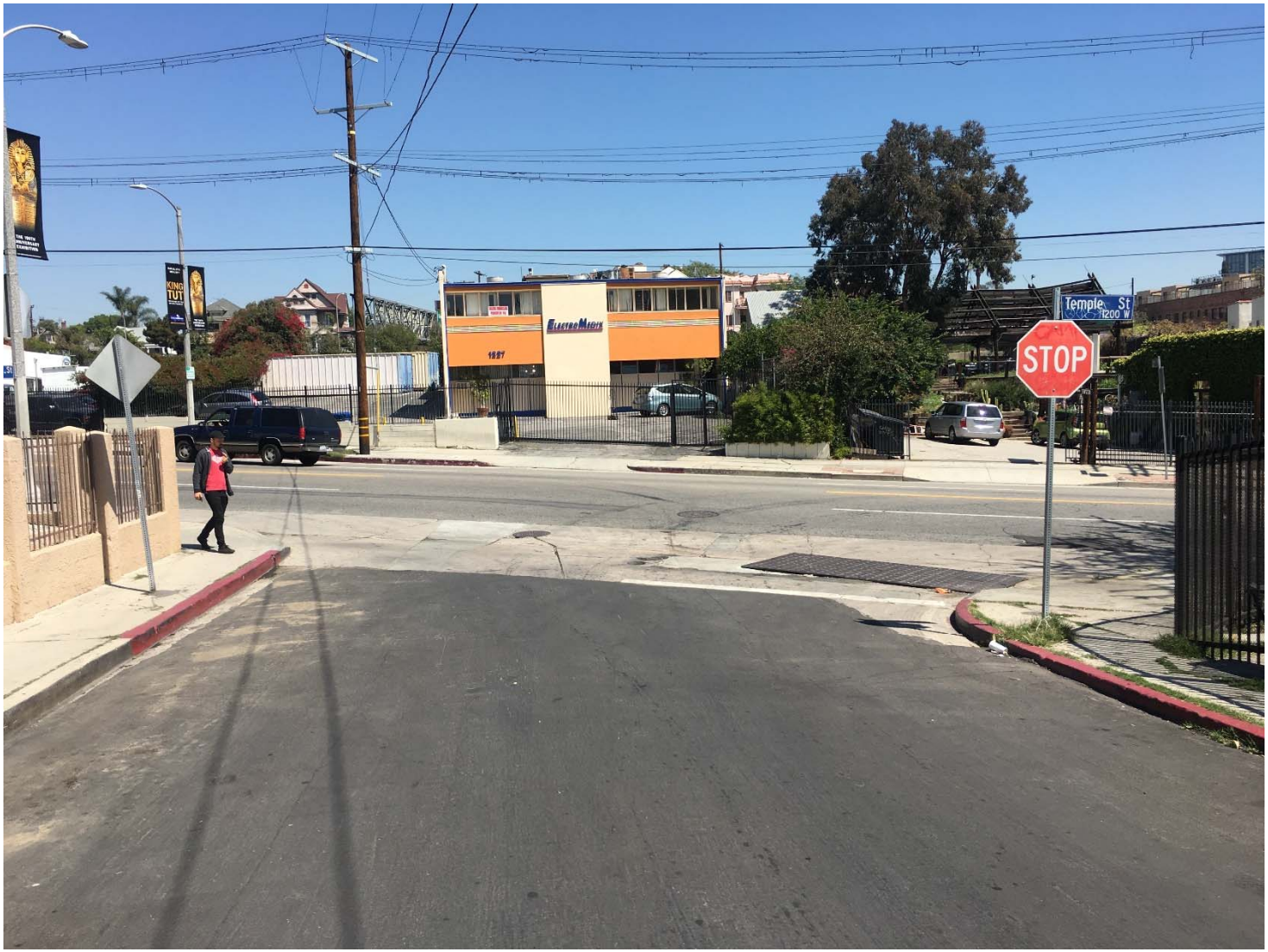
8. Street frontage of westerly adjacent properties, facing north from Firmin Street.



9. Alley facing west from Firmin Street connecting to Bixel Street.



10. View of approx. 3 ft sidewalk parallel to 1222 W. Temple Street on Firmin Street, facing south.



11. Intersection of Temple Street and Firmin Street on Firmin Street, facing north.



12. View of Firmin Street parallel to 430 N. Firmin Street, facing south from Firmin Street.

EXHIBIT E.a.

Technical Modifications Memorandum

Case No. DIR-2018-3691-TOC-SPP-WDI-1A

Department of City Planning

City Hall, 200 N. Spring Street, Room 272, Los Angeles, CA 90012

June 25, 2019

TO: City Planning Commission

FROM: Nuri Cho, City Planning Associate

SUBJECT: Technical Modifications Memorandum

TECHNICAL MODIFICATIONS TO THE FINDINGS SUPPORTING A STATUTORY EXEMPTION PURSUANT TO CEQA GUIDELINES SECTIONS 15192 AND 15194 UNDER CASE NO. ENV-2018-3692-SE AND CONDITIONS OF APPROVAL AND ENVIRONMENTAL FINDINGS IN THE DIRECTOR'S DETERMINATION FOR CASE NO. DIR-2018-3691-TOC-SPP-WDI; 418, 426, 430 NORTH FIRMIN STREET

Planning staff respectfully requests your consideration of the following technical modifications at the City Planning Commission meeting of July 11, 2019, related to Item No. 6 on the meeting agenda.

In May 2019, the Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194 (Exemption Findings) was prepared for the proposed project. Project Compliance for F. NOISE: Mobile in Table 3-3 of the Exemption Findings on page 3-24 states:

> "Pursuant to the *Firmin Court Project Noise Impact Analysis*, prepared by Kunzman Associates, Inc., dated August 1, 2018 […]"

As explained in the clarification letter from Ganddini Group, Inc., dated June 25, 2019 (Clarification Letter), the Exemption Findings erroneously referenced Kunzman Associates, Inc. and August 1, 2018 as the author and date of the Firmin Court Project Noise Impact Analysis. The author and date of the Firmin Court Project Noise Impact Analysis are hereby corrected to Ganddini Group, Inc. and November 5, 2018.

Project Compliance for F. NOISE: Mobile in Table 3-3 of the Exemption Findings on pages 3-24 and 3-25 further stipulates:

> "Pursuant to the *Firmin Court Project Noise Impact Analysis*, […] the Project would not exceed any City thresholds related to construction or stationary noise. Surrounding land

uses that would be sensitive to increases in noise include the single-family residential uses to the east, the multi-family residential use to the west, directly across Firmin Street, and the multi-family residential use to the south. The Project would not exceed any City thresholds with regards to these sensitive uses."

As described in the Clarification Letter, the Firmin Court Project Noise Impact Analysis attached as Appendix D to the Exemption Findings identified six (6) mitigation measures to reduce construction noise and vibrations emanating from the proposed project, as listed below as Mitigation Measures MM NOI-1 through MM NOI-6. These mitigation measures were inadvertently omitted in Table 3-3 of the Exemption Findings; however, this Technical Modifications Memorandum serves to clarify that the project would not exceed any City thresholds related to construction or stationary noise with implementation of applicable regulatory compliance measures regarding noise and the recommended mitigation measures listed in the Firmin Court Project Noise Impact Analysis, dated November 5, 2018. These measures are not new measures identified as part of the appeal. This Memorandum is intended to clarify the analysis in the Exemption Findings to include the mitigation measures that were already identified in the Firmin Court Project Noise Impact Analysis, dated November 5, 2018. As such, the project will continue to be consistent with the Mobile Noise Mitigation Measure of the Central City West Specific Plan Environmental Impact Report. Therefore, the project meets the threshold criteria set forth in Section 15192(a)(1) of the CEQA Guidelines, and qualifies for the Affordable Housing Exemption pursuant to the CEQA Guidelines Sections 15192 and 15194.

This Memorandum also serves to modify Conditions of Approval in the Director's Determination for Case No. DIR-2018-3691-TOC-SPP-WDI to include the six (6) mitigation measures and change the numbering of Administrative Conditions. The Environmental Findings in the Director's Determination are also modified to clarify that the project would not exceed any City thresholds related to construction or stationary noise with implementation of regulatory compliance measures and the six (6) mitigation measures.

The following technical modifications are requested for your consideration. Deleted text is shown in ~~strikethrough~~ and added text is shown in underline.

Modifications to Project Compliance for F. NOISE: Mobile in Table 3-3 of the Statutory Exemption Analysis, pages 3-24 and 3-25:

Pursuant to the *Firmin Court Project Noise Impact Analysi*s, prepared by ~~Kunzman Associates, Inc.~~ Ganddini Group, Inc., dated ~~August 1, 2018~~ November 5, 2018 ~~(Noise Report)~~, and attached as Appendix D, the Project would not exceed any City thresholds related to construction or stationary noise with implementation of applicable regulatory compliance measures regarding noise and the recommended mitigation measures listed in the *Firmin Court Project Noise Impact Analysi*s, dated November 5, 2018 as follows:

Mitigation Measures

MM NOI-1 During all project site excavation and grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards.

MM NOI-2 The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the project site.

MM NOI-3 Equipment shall be shut off and not left to idle when not in use.

MM NOI-4 The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the project site during all project construction.

MM NOI-5 Pile drivers shall not be utilized on the project site.

MM NOI-6 Vibrator rollers and/or any other equivalent vibratory equipment shall not be utilized within 22 feet and bulldozers within 10 feet of existing structures to remain. A backhoe may be utilized for demolition and soil compaction within 22 feet of the existing structures.

Surrounding land uses that would be sensitive to increases in noise include the single-family residential uses to the east, the multi-family residential use to the west, directly across Firmin Street, and the multi-family residential use to the south. The Project would not exceed any City thresholds with regards to these sensitive uses. Construction activities would not occur outside of the proscribed hours of 7am-9pm Monday-Friday and 8am-6pm Saturday, as mandated by LAMC Section 41.40.

Modifications to Conditions of Approval in the Director's Determination for Case No. DIR-2018-3691-TOC-SPP-WDI, pages 8 through 10:

31. **Mitigation Measure (MM NOI-1).** During all project site excavation and grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards.

32. **Mitigation Measure (MM NOI-2).** The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the project site.

33. **Mitigation Measure (MM NOI-3).** Equipment shall be shut off and not left to idle when not in use.

34. **Mitigation Measure (MM NOI-4).** The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the project site during all project construction.

35. **Mitigation Measure (MM NOI-5).** Pile drivers shall not be utilized on the project site.

36. **Mitigation Measure (MM NOI-6).** Vibrator rollers and/or any other equivalent vibratory equipment shall not be utilized within 22 feet and bulldozers within 10 feet of existing structures to remain. A backhoe may be utilized for demolition and soil compaction within 22 feet of the existing structures.

~~31.~~37. **Final Plans.** Prior to the issuance of any building permits for the project by the Department of Building & Safety, the applicant shall submit all final construction plans that are awaiting issuance of a building permit by the Department of Building & Safety for final review and approval by the Department of City Planning. All plans that are awaiting issuance of a building permit by the Department of Building & Safety shall be stamped by Department of City Planning

staff “Final Plans”. A copy of the Final Plans, supplied by the applicant, shall be retained in the subject case file.

~~32.~~38. **Notations on Plans.** Plans submitted to the Department of Building & Safety, for the purpose of processing a building permit application shall include all of the Conditions of Approval herein attached as a cover sheet, and shall include any modifications or notations required herein.

~~33.~~39. **Approval, Verification and Submittals.** Copies of any approvals, guarantees or verification of consultations, review of approval, plans, etc., as may be required by the subject conditions, shall be provided to the Department of City Planning prior to clearance of any building permits, for placement in the subject file.

~~34.~~40. **Code Compliance.** Use, area, height, and yard regulations of the zone classification of the subject property shall be complied with, except where granted conditions differ herein.

~~35.~~41. **Department of Building & Safety.** The granting of this determination by the Director of Planning does not in any way indicate full compliance with applicable provisions of the Los Angeles Municipal Code Chapter IX (Building Code). Any corrections and/or modifications to plans made subsequent to this determination by a Department of Building & Safety Plan Check Engineer that affect any part of the exterior design or appearance of the project as approved by the Director, and which are deemed necessary by the Department of Building & Safety for Building Code compliance, shall require a referral of the revised plans back to the Department of City Planning for additional review and sign-off prior to the issuance of any permit in connection with those plans.

~~36.~~42. **Department of Water and Power.** Satisfactory arrangements shall be made with the Los Angeles Department of Water and Power (LADWP) for compliance with LADWP’s Rules Governing Water and Electric Service. Any corrections and/or modifications to plans made subsequent to this determination in order to accommodate changes to the project due to the under-grounding of utility lines, that are outside of substantial compliance or that affect any part of the exterior design or appearance of the project as approved by the Director, shall require a referral of the revised plans back to the Department of City Planning for additional review and sign-off prior to the issuance of any permit in connection with those plans.

~~37.~~43. **Enforcement.** Compliance with and the intent of these conditions shall be to the satisfaction of the Department of City Planning.

~~38.~~44. **Expiration.** In the event that this grant is not utilized within three years of its effective date (the day following the last day that an appeal may be filed), the grant shall be considered null and void. Issuance of a building permit, and the initiation of, and diligent continuation of, construction activity shall constitute utilization for the purposes of this grant.

~~39.~~45. **Indemnification and Reimbursement of Litigation Costs.**

Applicant shall do all of the following:

(i) Defend, indemnify and hold harmless the City from any and all actions against the City relating to or arising out of, in whole or in part, the City’s processing and approval of this entitlement, including but not limited to, an action to attack, challenge, set aside,

void, or otherwise modify or annul the approval of the entitlement, the environmental review of the entitlement, or the approval of subsequent permit decisions, or to claim personal property damage, including from inverse condemnation or any other constitutional claim.

(ii) Reimburse the City for any and all costs incurred in defense of an action related to or arising out, in whole or in part, of the City's processing and approval of the entitlement, including but not limited to payment of all court costs and attorney's fees, costs of any judgments or awards against the City (including an award of attorney's fees), damages, and/or settlement costs.

(iii) Submit an initial deposit for the City's litigation costs to the City within 10 days' notice of the City tendering defense to the applicant and requesting a deposit. The initial deposit shall be in an amount set by the City Attorney's Office, in its sole discretion, based on the nature and scope of action, but in no event shall the initial deposit be less than $50,000. The City's failure to notice or collect the deposit does not relieve the applicant from responsibility to reimburse the City pursuant to the requirement in paragraph (ii).

(iv) Submit supplemental deposits upon notice by the City. Supplemental deposits may be required in an increased amount from the initial deposit if found necessary by the City to protect the City's interests. The City's failure to notice or collect the deposit does not relieve the applicant from responsibility to reimburse the City pursuant to the requirement in paragraph (ii).

(v) If the City determines it necessary to protect the City's interest, execute an indemnity and reimbursement agreement with the City under terms consistent with the requirements of this condition.

The City shall notify the applicant within a reasonable period of time of its receipt of any action and the City shall cooperate in the defense. If the City fails to notify the applicant of any claim, action, or proceeding in a reasonable time, or if the City fails to reasonably cooperate in the defense, the applicant shall not thereafter be responsible to defend, indemnify or hold harmless the City.

The City shall have the sole right to choose its counsel, including the City Attorney's office or outside counsel. At its sole discretion, the City may participate at its own expense in the defense of any action, but such participation shall not relieve the applicant of any obligation imposed by this condition. In the event the applicant fails to comply with this condition, in whole or in part, the City may withdraw its defense of the action, void its approval of the entitlement, or take any other action. The City retains the right to make all decisions with respect to its representations in any legal proceeding, including its inherent right to abandon or settle litigation.

For purposes of this condition, the following definitions apply:

"City" shall be defined to include the City, its agents, officers, boards, commissions, committees, employees, and volunteers.

"Action" shall be defined to include suits, proceedings (including those held under alternative dispute resolution procedures), claims, or lawsuits. Actions includes actions, as defined herein, alleging failure to comply with <u>any</u> federal, state or local law.

Nothing in the definitions included in this paragraph are intended to limit the rights of the City or the obligations of the applicant otherwise created by this condition.

Modifications to Environmental Findings in the Director's Determination for Case No. DIR-2018-3691-TOC-SPP-WDI, pages 24 through 25:

ENVIRONMENTAL FINDINGS

Pursuant to California Environmental Quality Act (CEQA) Guidelines Sections 15192 Threshold Requirements for Exemptions for Agricultural Housing, Affordable Housing, and Residential Infill Projects and 15194 Affordable Housing Exemption, the proposed Affordable Housing Project is statutorily exempt from CEQA. As found in *Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194 ("Exemption Findings")* and the Technical Modifications Memorandum dated June 25, 2019, included in the case file, Case No. ENV-2018-3692-SE, the project meets all of the threshold criteria set forth in CEQA Guidelines Sections 15192 and 15194.

A Historic Resources Assessment Report ("Historic Report") has been prepared by Sapphos Environmental in October 2018 for the subject site. The Historic Report concludes that the main residence and detached garage located at 418 N. Firmin Street have been substantially altered and therefore, are not eligible for listing in federal, state, or local historical registers and are not historical resources pursuant to CEQA. The detached garage located at 430 N. Firmin Street is also not a contributing feature of the property located at 430 N. Firmin Street and is not considered to be a historical resource pursuant to CEQA. Therefore, demolition of the main residence and detached garage located at 418 N. Firmin Street and the detached garage located at 430 N. Firmin Street would not result in a substantial adverse change to a historical resource as defined in Section 15064.5(b) of the CEQA Guidelines.

On the other hand, the primary residence located at 430 N. Firmin Street constitutes a historical resource as defined in Section 15064.5(a) of the CEQA Guidelines, as the property is listed as a "Historic Resource" in Appendix A of the CCWSP, and potentially eligible for the National Register, the California Register, and as a Historic-Cultural Monument under Criteria A/1/1. As such, the proposed construction of the project may have a potentially significant impact on the existing primary residence (historical resource) located at 430 N. Firmin Street.

To mitigate any potential significant impacts on this historical resource, the applicant is required to relocate the main residence at 430 N. Firmin Street to a property located at 115 E. Avenue 35 in accordance with the U.S. Department of the Interior, Heritage Conservation and Recreation Service, Technical Preservation Services Division's *Moving Historic Buildings*, and the Secretary of Interior's Standards for the Treatment of Historic Buildings. The Historic Resource determined that with the implementation of the mitigation measures described in the Exemption Findings and incorporated into the Conditions of Approval herein, the project would have a less-than-significant effect on the historical resource. On May 6, 2019, the Office of Historic Resources of City of Los Angeles Department of City Planning reviewed and concurred with the findings and conclusion of the Historic Report. Furthermore, per the Condition of Approval, the applicant is required to submit a Relocation and Rehabilitation Plan to the Office of Historic Resources for review and approval prior to issuance of any building permits.

In addition, as described in the Exemption Findings, various assessments have been conducted to identify potentially significant impacts on the environment from hazardous substances. The following documents have been prepared to analyze potentially significant impacts:

- Phase I Environmental Site Assessment (Phase I) conducted by EFI Global, Inc. on June 9, 2017
- Phase II Environmental Site Assessment (Phase II) conducted by EFI Global, Inc. on November 9, 2017
- Preliminary Geologic and Geotechnical Engineering Investigation conducted by GeoConcepts, Inc. in November 2017
- Subsurface Environmental Investigation conducted by Essel Environmental Engineering & Consulting (Essel) on April 30, 2018
- Additional Subsurface Environmental Investigation conducted by Essel on December 14, 2018
- Site Remediation Plan prepared by Essel on October 24, 2018

These documents conclude that the project may have potentially significant impacts from the existence and/or release of hazardous substances on the site. The project has been conditioned to implement mitigation measures identified in the Exemption Findings, including performing exploratory excavation in the areas of the site where historic oil wells are suspected to be present; preparation and submission of an Application for Construction Site Well Review and Notice(s) to the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) for the three potential historic oil wells at the site; design and installation of a methane mitigation system beneath the proposed building; preparation and implementation of a Site Management Plan, to be reviewed and approved by the Los Angeles County Fire Department, Health and Hazardous Materials Unit; abandonment of any oil wells identified at the site in accordance with the permit requirements of DOGGR; and enrollment in the Los Angeles County Fire Department, Health and Hazardous Materials Unit's Voluntary Oversight Program. With the implementation of the mitigation measures imposed as Conditions of Approval herein, the project would have less-than-significant effects on the environment from hazardous substances.

Lastly, as described in the Exemption Findings, pursuant to the Firmin Court Project Noise Impact Analysis, dated November 5, 2018 and prepared by Group, Inc., the project would not exceed any City thresholds related to construction or stationary noise with implementation of applicable regulatory compliance measures regarding noise and the mitigation measures listed in the Firmin Court Project Noise Impact Analysi,s dated November 5, 2018 and imposed as Conditions of Approval herein.

Based on the whole of the administrative record, the lead agency determined that the project is statutorily exempt from CEQA pursuant to CEQA Guidelines Sections 15192 and 15194, and with imposition of the mitigation measures described in the Exemption Findings and incorporated into the Conditions of Approval herein, the project will have less-than-significant impacts on the environment.

EXHIBIT E.b.

Clarification Letter by Ganddini Group

Case No. DIR-2018-3691-TOC-SPP-WDI-1A

June 25, 2019

Ms. Nuri Cho
CENTRAL PROJECT PLANNING DIVISION
200 N. Spring Str., Room 621
Los Angeles, CA 900121
T: 213) 978-1177

RE: Firmin Court Project Noise Study
18-0163

Dear Ms. Herrera:

The Statutory Exemption Analysis prepared for the Firmin Court Project referenced the *Firmin Court Project Noise Impact Analysis*, prepared by Kunzman Associates, Inc., dated August 1, 2018 (Noise Report). This reference was in error, as the Noise Report associated with the Project and the Statutory Exemption Analysis is the *Firmin Court Project Noise Impact Analysis*, prepared by Ganddini Group, Inc., dated November 5, 2018. The November 5 report was attached to the Statutory Exemption as Appendix D.

The Statutory Exemption Analysis stated "the Project would not exceed any City thresholds related to construction or stationary noise. Surrounding land uses that would be sensitive to increases in noise include the single-family residential uses to the east, the multi-family residential use to the west, directly across Firmin Street, and the multi-family residential use to the south. The Project would not exceed any City thresholds with regards to these sensitive uses."

As a point of clarification, the Project would not exceed any thresholds related to construction or stationary noise with implementation of applicable regulatory compliance measures and the recommended mitigation measures listed in the November 5, 2018 Noise Report. The measures include the following:

1. During all project site excavation and grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards. (Mitigation Measure)

2. The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the project site. (Mitigation Measure)

3. Equipment shall be shut off and not left to idle when not in use. (Regulatory Compliance – already required by law)

4. The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the project site during all project construction. (Mitigation Measure)

5. Pile drivers shall not be utilized on the project site. (Mitigation Measure)

Ms. Nuri Cho
CENTRAL PROJECT PLANNING DIVISION
June 25, 2019

6. Vibrator rollers and/or any other equivalent vibratory equipment shall not be utilized within 22 feet and bulldozers within 10 feet of existing structures to remain. A backhoe may be utilized for demolition and soil compaction within 22 feet of the existing structures. (Mitigation Measure)

We appreciate the opportunity to assist you on this project. Should you have any questions or if we can be of further assistance, please do not hesitate to call at (714) 795-3100 x 202.

Sincerely,

GANDDINI GROUP, INC.



Roma Stromberg, M.S., INCE
Senior Associate

EXHIBIT F

Director’s Determination

Case No. DIR-2018-3691-TOC-SPP-WDI-1A

DEPARTMENT OF
CITY PLANNING

COMMISSION OFFICE
(213) 978-1300

CITY PLANNING COMMISSION

SAMANTHA MILLMAN
PRESIDENT

VAHID KHORSAND
VICE-PRESIDENT

DAVID H. J. AMBROZ
CAROLINE CHOE
KAREN MACK
MARC MITCHELL
VERONICA PADILLA-CAMPOS
DANA M. PERLMAN
VACANT

CITY OF LOS ANGELES
CALIFORNIA

ERIC GARCETTI
MAYOR

EXECUTIVE OFFICES
200 N. SPRING STREET, ROOM 525
LOS ANGELES, CA 90012-4801
(213) 978-1271

VINCENT P. BERTONI, AICP
DIRECTOR

KEVIN J. KELLER, AICP
EXECUTIVE OFFICER

SHANA M.M. BONSTIN
DEPUTY DIRECTOR

TRICIA KEANE
DEPUTY DIRECTOR

ARTHI L. VARMA, AICP
DEPUTY DIRECTOR

LISA M. WEBBER, AICP
DEPUTY DIRECTOR

DIRECTOR'S DETERMINATION
TRANSIT ORIENTED COMMUNITIES AFFORDABLE HOUSING INCENTIVE PROGRAM, CENTRAL CITY WEST SPECIFIC PLAN PROJECT PERMIT COMPLIANCE REVIEW, AND WAIVER OF DEDICATION AND IMPROVEMENT

May 16, 2019

Applicant/Owner
Ted Handel
Firmin Court, L.P.
3431 Wesley Street, Unit F
Culver City, CA 90232

Representative
Katherine Casey
Craig Lawson & Co., LLC
3221 Hutchison Avenue, Unit D
Los Angeles, CA 90034

Case No.	DIR-2018-3691-TOC-SPP-WDI
CEQA:	ENV-2018-3692-SE
Specific Plan Subarea:	North (Temple/Beaudry Neighborhood District)
Location:	418, 426, 430 North Firmin Street
Council District:	1 – Cedillo
Neighborhood Council:	Echo Park
Community Plan Area:	Westlake
Land Use Designation:	High Medium Residential
Zone:	CW
Legal Description:	Lot FR 1, Block 26, Park Tract; Lots FR7&FR8, Byram's Subdivision of a Part of Lot 1, Block 39 of Hancock's Survey

Last Day to File an Appeal: May 31, 2019

DETERMINATION

I have reviewed the proposed project and as the designee of the Director of Planning, I hereby:

Determine, based on the whole of the administrative record, that the project is statutorily exempt from California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Sections 15192 and 15194;

Approve with Conditions, a **Transit Oriented Communities (TOC) Affordable Housing Incentive Program Compliance Review,** pursuant to the Los Angeles Municipal Code (LAMC) Section 12.22 A.31, for a qualifying Tier 3 project, totaling 64 dwelling units, reserving 45 units for Extremely Low Income Household occupancy and 19 units for Low Income Household occupancy for a period of 55 years, with the following Base and Additional Incentives:

Base Incentives

a. **Residential Density.** A 45-percent increase in the maximum density to permit a total of 64 dwelling units in lieu of 44 units as otherwise permitted by Section 6.F.1 of the Central City West Specific Plan;

b. **Floor Area Ratio (FAR).** A 45-percent increase in the maximum FAR to permit 4.35:1 in lieu of 3:1 as otherwise permitted by Section 6.C of the Central City West Specific Plan;

c. **Parking.** No required vehicular parking for all residential units;

Additional Incentives

d. **Northerly Side Yard and Rear Yard.** A 30-percent reduction in the minimum northerly side yard setback to permit seven (7) feet in lieu of 10 feet as otherwise required by Section 6.F.1 of the Central City West Specific Plan, and a 30-percent reduction in the minimum rear yard setback to permit 13 feet, 4 inches in lieu of 19 feet as otherwise required by Section 6.F.1 of the Central City West Specific Plan;

e. **Usable Open Space.** A 25-percent reduction in the minimum usable open space to permit 5,307 square feet in lieu of 7,075 square feet as otherwise required by LAMC Section 12.21 G.2;

f. **Common Open Space.** A 17.1-percent reduction in the minimum common open space to permit 5,306 square feet in lieu of 6,400 square feet as otherwise required by Section C.1(a) of Appendix D of the Central City West Specific Plan;

g. **Height.** An 11-foot increase in the maximum building height to permit 86 feet in lieu of 75 feet as otherwise required by Section 6.C of the Central City West Specific Plan;

Approve with Conditions a **Project Permit Compliance Review**, pursuant to LAMC Section 11.5.7 C and the Central City West Specific Plan, Ordinance No. 173,455, for the construction of a seven-story multi-family residential building consisting of 64 dwelling units; and

Dismiss a request for a **Waiver of Dedication and Improvement**, pursuant to LAMC Section 12.37 I.3, to waive a seven (7)-foot dedication and sidewalk improvement to complete a 25-foot half right-of-way on the east side of Firmin Street adjoining the project site's street frontage, inasmuch as Firmin Street is designated a Local Street – Limited and the project is not subject to dedication and improvement requirements per LAMC Section 12.37 A;

Adopt the attached Findings and Conditions of Approval.

CONDITIONS OF APPROVAL

TOC Affordable Housing Incentive Program Conditions

1. **Site Development.** Except as modified herein, the project shall be in substantial conformance with the plans and materials submitted by the applicant, stamped Exhibit "A," and attached to the subject case file. No change to the plans shall be made without prior review by the Department of City Planning, Central Project Planning Division, and written approval by the Director of Planning. Each change shall be identified and justified in writing. Minor deviations may be allowed in order to comply with the provisions of the Municipal Code or the project conditions.

2. **Residential Density**. The project shall be limited to a maximum density of 64 residential dwelling units.

3. **Affordable Units.** The project shall reserve 64 units as affordable units as follows: seven (7) units reserved for Extremely Low Income Households as determined by the California Department of Housing and Community Development (HCD); and 38 units reserved for Extremely Low Income Households and 19 units reserved for Low Income Households as determined by either HCD or the United States Department of Housing and Urban Development.

4. **Changes in On-Site Restricted Units**. Deviations that increase the number of restricted affordable units or that change the composition of units or parking numbers shall be consistent with LAMC Section 12.22 A.31 and TOC Guidelines.

5. **Housing Requirements.** Prior to issuance of a building permit, the owner shall execute and record a covenant and agreement running with the land to the satisfaction of the Los Angeles Housing and Community Investment Department (HCIDLA). The covenant shall bind the owner to the following affordable units for rental for a period of 55 years: seven (7) units reserved for Extremely Low Income Households as determined by the California Department of Housing and Community Development (HCD); and 38 units reserved for Extremely Low Income Households and 19 units reserved for Low Income Households as determined by either HCD or the United States Department of Housing and Urban Development. Enforcement of the terms of said covenant shall be the responsibility of HCIDLA. The applicant will present a copy of the recorded covenant to the Department of City Planning for inclusion in this file. The project shall comply with the TOC Guidelines and any monitoring requirements established by the HCIDLA. Refer to the TOC Affordable Housing Incentive Program and Housing Replacement (AB 2556 Determination) Background sections of this determination.

6. **Parking.** No automobile parking shall be required for all residential units.

7. **Floor Area Ratio (FAR).** The project shall be permitted a maximum FAR of 4.35:1 for a maximum floor area of 51,299 square feet.

8. **Northerly Side Yard.** The project shall provide a minimum side yard setback of seven (7) feet along the northerly property line.

9. **Rear Yard.** The project shall provide a minimum rear yard setback of 13 feet, 4 inches.

10. **Usable Open Space.** The project shall provide a minimum of 5,307 square feet of usable open space.

11. **Common Open Space.** A minimum of 5,306 square feet of usable open space shall consist of common open space.

12. **Building Height.** The maximum building height shall be limited to 86 feet.

13. **Landscaping.** The landscape plan shall indicate landscape points for the project equivalent to **10% more than otherwise required** by LAMC 12.40 and Landscape Ordinance Guidelines "O". All open areas not used for buildings, driveways, parking areas, recreational facilities or walks shall be attractively landscaped, including an automatic irrigation system, and maintained in accordance with a landscape plan prepared by a licensed landscape architect or licensed architect, and submitted for approval to the Department of City Planning.

14. **Labor Requirement.** Pursuant to Los Angeles Municipal Code Section 11.5.11, the applicant shall confer with Department of Public Works, Bureau of Contract Administration, Office of Contract Compliance, and shall provide the following to the Department of City Planning:

    a. A signed Preconstruction Checklist Agreement between the Applicant and the Bureau of Contract Administration (maintained in the case file), prior to clearing any Building Permit, which covers the following:

        i. **Licenses.** All building and construction work on the project will be performed at all tiers by contractors that are licensed by the State of California and the City of Los Angeles. The project will employ only construction workers that possess all licenses and certifications required by the State of California and the City of Los Angeles.

        ii. **Local Hire.** At least 30% of all respective workforces' construction workers' hours of Project Work will be performed by permanent residents of the City of Los Angeles. Of these, at least 10% of all their respective workforces' construction workers' hours of Project Work shall be performed by Transitional Workers whose primary place of residence is within a 5-mile radius of the covered project. If such minimums are not met, evidence of a good faith effort to solicit such local workers shall be evidenced.

        iii. **Wages.** The project will pay construction workers performing Project Work hourly wage rates for those classifications in compliance with the applicable prevailing wage rate determination established pursuant to the California Labor Code.

        iv. **Training.** At least 60% of construction workforces employed on the project will be:

            1. Workers who graduated from a Joint Labor Management apprenticeship training program approved by the State of California.

            2. Alternatively, workers employed that have minimum hours of on-the-job experience in the applicable craft which would be required to graduate from such a state-approved apprenticeship training program.

            3. Workers who are registered apprentices in an apprenticeship training program approved by the State of California or an out-of-state, federally-approved apprenticeship program.

        v. **Bond.** A Bond may be required to ensure compliance.

b. After the project has completed construction, and prior to any Certificate of Occupancy, a signed report from the Bureau of Contract Administration that indicates compliance with the above licenses, local hire, wages and training requirements shall be added to the case file.

Project Permit Compliance Conditions

15. **Front Yard.** The project shall provide a minimum front yard setback of 15 feet.

16. **Southerly Side Yard.** The project shall provide a minimum side yard setback of 10 feet.

17. **Open Space.** No more than 1,163 square feet of the front yard area may be used to meet the minimum usable open space requirement. Interior courtyards shall have a minimum width of 10 feet, a minimum average width of 20 feet, and a minimum area of 400 square feet. A minimum of 25 percent of courtyards shall be landscaped.

18. **Trees.** There shall be a minimum of 64 trees planted in compliance with Section C.2 of Appendix D in the Specific Plan, of which a minimum of 35 shall be provided on-site. Trees shall be a minimum of 12 feet in height and three (3) inches in caliper at the time of planting. Final landscape plans shall show the location, height, and caliper of all trees. Trees that cannot be accommodated on-site shall be provided through the payment of the In-Lieu Fee – Development Tree Planting Requirement, as specified in Article 2, Chapter VI, Section 62.177(b)(1) of the Los Angeles Municipal Code for each tree to be planted off-site. The first priority for the location of off-site plantings shall be within the Specific Plan, and second, within the Westlake Community Plan Area, subject to the acceptance of a donor site. A receipt showing proof of payment shall be provided at the time of Building Permit Clearance. In the event that the number of dwelling units should be reduced, then no modification of this determination shall be necessary, and the number of trees shall be recalculated based upon the Specific Plan requirement of one tree per unit.

19. **Landscape Plans.** All open areas not used for buildings, driveways, parking areas, recreational facilities or walks shall be attractively landscaped and maintained in accordance with a landscape plan, including an automatic irrigation plan, prepared by a licensed landscape architect pursuant to Appendix D of the Specific Plan.

20. **Signs.** No signs have been approved for the proposed project. Any signage must be approved pursuant to a Project Permit Compliance Determination for the Central City West Specific Plan.

Environmental Conditions

21. **Relocation and Rehabilitation Plan.** Prior to issuance of any building permits, the applicant shall submit a Relocation and Rehabilitation Plan for the relocation of the primary residence located at 430 N. Firmin Street to the property located at 115 E. Avenue 35 to the City of Los Angeles Department of City Planning Office of Historic Resources for review and approval.

22. **Mitigation Measure (MM CUL-1).**

a. To minimize impacts related to relocation of the historical resource, the primary residence of the property located at 430 N. Firmin Street shall be relocated to the property located

at 115 E. Avenue 35 by a qualified building moving company with experience moving historic wood-frame buildings.

b. The building shall be moved and stabilized in accordance with the U.S. Department of the Interior, Heritage Conservation and Recreation Service, Technical Preservation Services Division's *Moving Historic Buildings* to ensure the successful relocation of the building that will not result in red tagging and subsequent demolition of the historical resource.

c. The building shall be restored for habitation following the relocation pursuant to Secretary of Interior's Standards for the Treatment of Historic Buildings.

d. A Relocation and Rehabilitation Plan (Plan) to relocate the building to 115 East Avenue 35, Los Angeles, California ("Avenue 35 Site") shall be commissioned by the applicant and developed by a qualified historic preservation consultant, to the satisfaction of the City of Los Angeles Department of City Planning Office of Historic Resources. The Plan shall incorporate to the extent feasible the relocation methodology recommended by the National Park Service (NPS), which is outlined in the booklet entitled "Moving Historic Buildings," by John Obed Curtis (1979). The Plan shall include an assessment of the house in its current condition and location by an experienced architect or engineer and actions that should be taken to minimize the physical impact, if any, on relocating the house to the final site. The Plan shall focus on preservation of the house in its current condition to the extent practicable.

e. Once at the Avenue 35 Site, the house should be sited in a manner as similar as reasonably possible to its historic setting and should retain the same relationship to grade to the extent feasible. Specifically, the new foundation should not be left exposed but should offer similar coverage like the existing wood skirting. Additional exposure or additional skirting should not be employed as a method to raise or lower the building. In addition, a plaque describing the historical significance of the original location shall be placed in a visible location on the house. The removal, relocation and rehabilitation process shall be monitored by a qualified historic preservation consultant at key intervals to ensure conformance with the NPS methodology and the Standards. The preservation consultant shall also be available to provide technical expertise to reduce potential impacts to the house. The moving company will have demonstrated experience with moving historic buildings in a manner that meets the Standards.

23. **Mitigation Measure (MM HAZ-1).** The Applicant shall perform exploratory excavation in the three areas of the site where historic oil wells are suspected to be present. Excavation shall be performed in a 20- by 20-foot-square area in the northwestern corner of 426 Firmin Street, a 10- by 20-foot rectangular area along the eastern edge of 426 Firmin Street, and a 15- by 20-foot rectangular area under the driveway and between the house and detached garage at 418 Firmin Street.

24. **Mitigation Measure (MM HAZ-2).** The Applicant shall prepare and submit to DOGGR an Application for Construction Site Well Review and Notice(s) of Intention for the three potential historic oil wells at the site.

25. **Mitigation Measure (MM HAZ-3).** The Applicant shall prepare a design for a methane mitigation system to be installed beneath the proposed building. The design shall conform to the provisions of City of Los Angeles Ordinance No. 175,790 and applicable methane mitigation standards of the Los Angeles Department of Building and Safety.

26. **Mitigation Measure (MM HAZ-4).** The Applicant shall prepare a Site Management Plan for the planned development. This plan shall address health and safety measures; characterization of soil to be disposed off-site; characterization, removal, and disposal of oil and oily waste encountered in boring EE-3; dust and organic vapor control measures; air monitoring as might be required; and contingency measures to be taken if unanticipated subsurface conditions are encountered. Prior to the issuance of a grading permit for the Project, the applicant shall submit the Site Management Plan that has been reviewed and approved by the Los Angeles County Fire Department (LACoFD; regulatory agency), Health and Hazardous Materials Unit to the City of Los Angeles, Department of City Planning, and Department of Building and Safety.

27. **Mitigation Measure (MM HAZ-5).** Prior to the issuance of a grading permit for the Project, the applicant shall submit the Soil Remediation Plan that has been reviewed and approved by the Los Angeles County Fire Department, Health and Hazardous Materials Unit to the City of Los Angeles, Department of City Planning and Department of Building and Safety.

28. **Mitigation Measure (MM HAZ-6).** The applicant shall abandon any historic oil wells identified at the site during the exploratory excavation according to the permit requirements of DOGGR. Site structures will very likely need to be removed and some grading performed before well abandonment to allow access to the well(s) and room for well drilling and associated equipment.

29. **Mitigation Measure (MM HAZ-7).** The applicant shall excavate, remove, and dispose of the oil, oily sludge, and oil saturated soil of the "oil pit" (vicinity of boring EE-3) located at 418 Firmin Street. The applicant shall further characterize the excavated materials, as needed, according to the requirements of the selected disposal facility.

30. **Mitigation Measure (MM HAZ-8).**

    a. The Applicant shall enroll in the Los Angeles County Fire Department (LACoFD; regulatory agency) Health and Hazardous Materials Unit Voluntary Oversight Program. Prior to enrolling in the Program, the Applicant and its role as Environmental Consultant shall schedule a meeting with the manager of the Site Mitigation Unit (SMU), as required by the LACoFD. Following the meeting, the Applicant shall complete the brief Remedial Action Agreement form. The Agreement form with a check made out to the LACoFD in the amount specified on the form, together with electronic copies of reports documenting previous assessment work performed at the Site (including, but not limited to, Phase I, and Phase II, and any other subsequently prepared environmental documentation) shall be sent to the Applicant, who will have hard copies produced and will submit the check and application per the instructions on the Agreement form to the LACoFD.

    b. During the period of oversight provided by the LACoFD, the LACoFD may require additional sampling and/or monitoring both during and after grading, excavation, as well as after redevelopment activities are complete. If so, when required sampling and/or monitoring tasks have been performed at the intervals and for the duration of time as may be specified by the LACoFD, the Applicant will prepare and submit printed and electronic copies of the requisite report(s) to the regulatory case manager. The LACoFD will review the reports and return them to the Applicant with comments.

    c. When the final reports have been submitted and the LACoFD's comments have been addressed to the satisfaction of the regulatory case manager, the process for case closure can begin. The process will be considered complete when the LACoFD issues a letter to

the Applicant stating that the Applicant has fulfilled their obligations and that environmental conditions at that time require no further action. Prior to the issuance of building permits, with the exception of grading permits and permits necessary for site clean-up, the Applicant shall submit this letter to the City of Los Angeles, Department of City Planning to be included in Case Nos. DIR-2018-3691-TOC-SPP-WDI and ENV-2018-3692-SE.

d. Other regulatory agencies in addition to the LACoFD which can provide guidance and oversight to address potential issues are the Los Angeles Regional Water Quality Control Board (LARWQCB) and the California Department of Toxic Substances Control (DTSC).

Administrative Conditions

31. **Final Plans.** Prior to the issuance of any building permits for the project by the Department of Building & Safety, the applicant shall submit all final construction plans that are awaiting issuance of a building permit by the Department of Building & Safety for final review and approval by the Department of City Planning. All plans that are awaiting issuance of a building permit by the Department of Building & Safety shall be stamped by Department of City Planning staff "Final Plans". A copy of the Final Plans, supplied by the applicant, shall be retained in the subject case file.

32. **Notations on Plans.** Plans submitted to the Department of Building & Safety, for the purpose of processing a building permit application shall include all of the Conditions of Approval herein attached as a cover sheet, and shall include any modifications or notations required herein.

33. **Approval, Verification and Submittals.** Copies of any approvals, guarantees or verification of consultations, review of approval, plans, etc., as may be required by the subject conditions, shall be provided to the Department of City Planning prior to clearance of any building permits, for placement in the subject file.

34. **Code Compliance.** Use, area, height, and yard regulations of the zone classification of the subject property shall be complied with, except where granted conditions differ herein.

35. **Department of Building & Safety.** The granting of this determination by the Director of Planning does not in any way indicate full compliance with applicable provisions of the Los Angeles Municipal Code Chapter IX (Building Code). Any corrections and/or modifications to plans made subsequent to this determination by a Department of Building & Safety Plan Check Engineer that affect any part of the exterior design or appearance of the project as approved by the Director, and which are deemed necessary by the Department of Building & Safety for Building Code compliance, shall require a referral of the revised plans back to the Department of City Planning for additional review and sign-off prior to the issuance of any permit in connection with those plans.

36. **Department of Water and Power.** Satisfactory arrangements shall be made with the Los Angeles Department of Water and Power (LADWP) for compliance with LADWP's Rules Governing Water and Electric Service. Any corrections and/or modifications to plans made subsequent to this determination in order to accommodate changes to the project due to the under-grounding of utility lines, that are outside of substantial compliance or that affect any part of the exterior design or appearance of the project as approved by the Director, shall require a referral of the revised plans back to the Department of City Planning for additional review and sign-off prior to the issuance of any permit in connection with those plans.

37. **Enforcement.** Compliance with and the intent of these conditions shall be to the satisfaction of the Department of City Planning.

38. **Expiration.** In the event that this grant is not utilized within three years of its effective date (the day following the last day that an appeal may be filed), the grant shall be considered null and void. Issuance of a building permit, and the initiation of, and diligent continuation of, construction activity shall constitute utilization for the purposes of this grant.

39. **Indemnification and Reimbursement of Litigation Costs.**

Applicant shall do all of the following:

(i) Defend, indemnify and hold harmless the City from any and all actions against the City relating to or arising out of, in whole or in part, the City's processing and approval of this entitlement, including but not limited to, an action to attack, challenge, set aside, void, or otherwise modify or annul the approval of the entitlement, the environmental review of the entitlement, or the approval of subsequent permit decisions, or to claim personal property damage, including from inverse condemnation or any other constitutional claim.

(ii) Reimburse the City for any and all costs incurred in defense of an action related to or arising out, in whole or in part, of the City's processing and approval of the entitlement, including but not limited to payment of all court costs and attorney's fees, costs of any judgments or awards against the City (including an award of attorney's fees), damages, and/or settlement costs.

(iii) Submit an initial deposit for the City's litigation costs to the City within 10 days' notice of the City tendering defense to the applicant and requesting a deposit. The initial deposit shall be in an amount set by the City Attorney's Office, in its sole discretion, based on the nature and scope of action, but in no event shall the initial deposit be less than $50,000. The City's failure to notice or collect the deposit does not relieve the applicant from responsibility to reimburse the City pursuant to the requirement in paragraph (ii).

(iv) Submit supplemental deposits upon notice by the City. Supplemental deposits may be required in an increased amount from the initial deposit if found necessary by the City to protect the City's interests. The City's failure to notice or collect the deposit does not relieve the applicant from responsibility to reimburse the City pursuant to the requirement in paragraph (ii).

(v) If the City determines it necessary to protect the City's interest, execute an indemnity and reimbursement agreement with the City under terms consistent with the requirements of this condition.

The City shall notify the applicant within a reasonable period of time of its receipt of any action and the City shall cooperate in the defense. If the City fails to notify the applicant of any claim, action, or proceeding in a reasonable time, or if the City fails to reasonably cooperate in the defense, the applicant shall not thereafter be responsible to defend, indemnify or hold harmless the City.

The City shall have the sole right to choose its counsel, including the City Attorney's office or outside counsel. At its sole discretion, the City may participate at its own expense in the

defense of any action, but such participation shall not relieve the applicant of any obligation imposed by this condition. In the event the applicant fails to comply with this condition, in whole or in part, the City may withdraw its defense of the action, void its approval of the entitlement, or take any other action. The City retains the right to make all decisions with respect to its representations in any legal proceeding, including its inherent right to abandon or settle litigation.

For purposes of this condition, the following definitions apply:

"City" shall be defined to include the City, its agents, officers, boards, commissions, committees, employees, and volunteers.

"Action" shall be defined to include suits, proceedings (including those held under alternative dispute resolution procedures), claims, or lawsuits. Actions includes actions, as defined herein, alleging failure to comply with any federal, state or local law.

Nothing in the definitions included in this paragraph are intended to limit the rights of the City or the obligations of the applicant otherwise created by this condition.

PROJECT BACKGROUND

The project site consists of three (3) contiguous parcels with approximately 250 feet of street frontage along the east side of North Firmin Street and varying depths of approximately 104 feet to 131 feet, for a total lot size of 17,330 square feet. The project site is located within the Westlake Community Plan, which designates the site for High Medium Residential land uses. The project site is also located within the North Subarea (Temple/Beaudry Neighborhood District) of the Central City West Specific Plan ("Specific Plan"). The project site is zoned CW "Central City West Specific Plan Zone," which indicates that the development regulations on the project site is established by the Specific Plan. The Specific Plan identifies land use categories and height/floor area ratio districts that guide development on-site. The project site has a land use category and height/floor area ratio district of R4(CW)-75/3-O per the Specific Plan, which allows land use, density and setback regulations of the R4 Zone per LAMC Section 12.11 and a maximum height of 75 feet and FAR of 3:1. The site is located within the City of Los Angeles Transit Priority Area, Tier 2 of the Transit Oriented Communities (TOC) Affordable Housing Incentive Program, methane zone, and Bureau of Engineering (BOE) Special Grading Area.

The project site is currently improved with a single-family residence and a detached garage built in 1890 (418 North Firmin Street), a vacant lot (426 North Firmin Street), and a single-family residence and a detached garage built in 1895 (430 North Firmin Street). The single-family residence located at 430 North Firmin Street is listed as a potentially historic resource in Appendix A of the Specific Plan. In addition, the Historic Resources Assessment Report (Historic Report) prepared by Sapphos Environmental, Inc. and dated October 2018 for the project determined that the primary residence located at 430 North Firmin Street constitutes a historical resource as defined in Section 15064.5(a) of the CEQA Guidelines, while the single-family residence and detached garage at 418 North Firmin Street and the detached garage at 430 North Firmin Street are not considered historical resources.

There are four (4) trees on the project site, which will be removed as part of the project. Per the Existing Tree Survey prepared by Fong Hart Schneider Partners on April 30, 2018, none of these trees are protected. There are no trees in the public right-of-way.

The surrounding area is characterized by residential and commercial uses. Land uses that immediately abut the project site include a vacant lot, a surface parking lot and commercial and residential buildings to the north, single-family and multi-family residential uses to the east, two-story multi-family residential uses to the west across Firmin Street, and multi-family residential uses to the south. Beyond the immediately abutting land uses in the adjoining area, there are single- and multi-family residential uses to the west, east, and south, and commercial and institutional uses, including a church, to the north along Temple Street. The Hollywood Freeway is located just north of the commercial uses on Temple Street. In addition, the fields for Civitas School of Leadership and Edward R. Roybal Learning Center are located approximately 210 feet southeast and Betty Plasencia Elementary School and Angelina Preschool are located approximately 575 feet west.

The proposed project is for the demolition of the single-family residence and detached garage located at 418 North Firmin Street, and the construction, use and maintenance of a seven-story, multi-family residential building with a total of 64 dwelling units consisting of 45 permanent supportive housing units reserved for Extremely Low Income Households and 19 units reserved for Low Income Households. One (1) of 19 units reserved for Low Income Households will be a manager's unit. The building will have a maximum building height of 86 feet, as measured from grade to the roof ridge, and 49,099 square feet of floor area with a 4.17:1 FAR including 2,200 square feet of permanent supportive housing supportive service areas. The project proposes 10

non-required automobile parking spaces and 51 long-term bicycle parking spaces within a semi-subterranean garage, and five (5) short-term bicycle parking spaces at the southwest corner of the subject site. The project will provide 5,307 square feet of usable open space, including 1,163 square feet of open space within the front yard setback (permitted by the Specific Plan), a 600-square-foot community room at the second floor level, a 726-square-foot community room and a 2,291-square-foot court yard at the third floor level, and 527 square feet of roof deck. The project will also provide a total of 64 trees, including 35 trees on-site and 29 trees off-site. The applicant is required to relocate the primary residence at 430 North Firmin Street to a vacant parcel located at 115 East Avenue 35 to reduce potentially significant impacts to a historical resource to a less-than-significant level per the mitigation measure included in the Conditions of Approval.

The applicant is seeking approval of the following Base and Additional Incentives of the Transit Oriented Communities (TOC) Affordable Housing Incentive Program:

- Base Incentives:
  - A 45% increase in density to allow 64 units in lieu of 44 base units.
  - A 45% increase in FAR to allow a maximum of 4.35:1 in lieu of 3:1.
  - No required parking for all residential units for a 100% affordable housing project
- Additional Incentives
  - A 30% reduction in the required width of the northerly side yard setback to allow seven (7) feet in lieu of 10 feet and rear yard setback to allow 13 feet, 4 inches in lieu of 19 feet.[1]
  - A 25% reduction in the minimum usable open space to allow 5,307 square feet in lieu of 7,075 square feet.
  - A 17.1% reduction in the minimum common open space required to allow 5,306 square feet in lieu of 6,400 square feet.
  - An 11-foot increase in the maximum allowable building height to permit 86 feet in lieu of 75 feet

HOUSING REPLACEMENT (AB 2556 DETERMINATION) BACKGROUND

On September 27, 2014, Governor Jerry Brown signed Assembly Bill (AB) 2222, as amended by AB 2556 on August 19, 2016, to amend sections of California's Density Bonus Law (Government Code Section 65915). AB 2556 requires applicants of Density Bonus projects filed as of January 1, 2015 to demonstrate compliance with the housing replacement provisions which require replacement of rental dwelling units that either exist at the time of application of a Density Bonus project, or have been vacated or demolished in the five-year period preceding the application of the project. This applies to all pre-existing units that have been subject to a recorded covenant, ordinance, or law that restricts rents to levels affordable to persons and families of lower or very low income; subject to any other form of rent or price control; or occupied by Low or Very Low Income Households.

Pursuant to the AB 2556 (TOC) Determination Letter dated April 25, 2018 and prepared by the Los Angeles Housing and Community Investment Department (HCIDLA), there were no residential units built and demolished on the subject site, which currently and have remained

[1] Per TOC Guidelines Section VII.1.a.ii.2, one Yard/Setback Additional Incentive includes a reduction in the required width of depth of two (2) individual yards or setbacks in Tier 4.

single-family residences and vacant land within the last five (5) years. Therefore, no AB 2556 replacement affordable units are required.

TRANSIT ORIENTED COMMUNITIES AFFORDABLE HOUSING INCENTIVE PROGRAM BACKGROUND

Measure JJJ was adopted by the Los Angeles City Council on December 13, 2016. Section 6 of the Measure instructed the Department of City Planning to create the Transit Oriented Communities (TOC) Affordable Housing Incentive Program. The measure required that the Department adopt a set of TOC Guidelines, which establishes incentives for residential and mixed-use projects located within ½ mile of a major transit stop. Major transit stops are defined under existing State law.

The TOC Affordable Housing Incentive Program Guidelines (TOC Guidelines), released on September 22, 2017, establish a tier-based system with varying development bonuses and incentives based on a project's distance from different types of transit. The largest bonuses are reserved for those areas in the closest proximity to significant rail stops or the intersection of major bus rapid transit lines. Required affordability levels are increased incrementally in each higher tier. The incentives provided in the TOC Guidelines describe the range of bonuses from particular zoning standards that applicants may select.

The project site is located less than 750 feet from the West Temple Street and East Edgeware Road intersection serving two regular bus lines: Metro Bus Line 10 with an average service interval of approximately 10 minutes, and DASH Pico Union/Echo Park Line with an average service interval of approximately 11 minutes. This qualifies the site as Tier 2 TOC Affordable Housing Incentive Area. However, per Section IV.9 of the TOC Guidelines, Eligible Housing Developments that consist of 100 percent On-Site Restricted Affordable Units are eligible for one increase in Tier than otherwise would be provided. The project will reserve all 64 dwelling units for Extremely Low and Low Income Households. As such, the project is eligible for an increase to Tier 3 TOC Affordable Housing Incentive Area.

TRANSIT ORIENTED COMMUNITIES AFFORDABLE HOUSING INCENTIVE PROGRAM ELIGIBILITY REQUIREMENTS

To be an eligible TOC Housing Development, a project must meet the Eligibility criteria set forth in Section IV of the TOC Guidelines. A Housing Development located within a TOC Affordable Housing Incentive Area shall be eligible for TOC Incentives if it meets all of the following requirements, which it does:

1. ***On-Site Restricted Affordable Units.*** *In each Tier, a Housing Development shall provide On-Site Restricted Affordable Units at a rate of at least the minimum percentages described below. The minimum number of On-Site Restricted Affordable Units shall be calculated based upon the total number of units in the final project.*

    a. *Tier 1 - 8% of the total number of dwelling units shall be affordable to Extremely Low Income (ELI) Households, 11% of the total number of dwelling units shall be affordable to Very Low (VL) Income Households, or 20% of the total number of dwelling units shall be affordable to Lower Income Households.*
    b. *Tier 2 - 9% ELI, 12% VL or 21% Lower.*
    c. *Tier 3 - 10% ELI, 14% VL or 23% Lower.*
    d. *Tier 4 - 11% ELI, 15% VL or 25% Lower.*

As previously mentioned, the project is eligible for Tier 3 Incentives for consisting of 100 percent On-Site Restricted Affordable Units. As such, the project is required to set aside at least 10 percent, or seven (7) units, of 64 total units for Extremely Low Income Households. The project will reserve 45 units for Extremely Low Income Households and 19 units for Low Income Households. As such, the project meets the eligibility requirement for On-Site Restricted Affordable Units.

2. ***Major Transit Stop.*** *A Housing Development shall be located on a lot, any portion of which must be located within 2,640 feet of a Major Transit Stop, as defined in Section II and according to the procedures in Section III.2 of the TOC Guidelines.*

   A Major Transit Stop is a site containing a rail station or the intersection of two or more bus routes with a service interval of 15 minutes or less during the morning and afternoon peak commute periods. The project site is located less than 750 feet from the West Temple Street and East Edgeware Road intersection serving two regular bus lines: Metro Bus Line 10 with an average service interval of approximately 10 minutes, and DASH Pico Union/Echo Park Line with an average service interval of approximately 11 minutes. As such, the project meets the eligibility requirement for proximity to a Major Transit Stop.

3. ***Housing Replacement.*** *A Housing Development must meet any applicable housing replacement requirements of California Government Code Section 65915(c)(3), as verified by the Department of Housing and Community Investment (HCIDLA) prior to the issuance of any building permit. Replacement housing units required per this section may also count towards other On-Site Restricted Affordable Units requirements.*

   Pursuant to the AB 2556 (TOC) Determination Letter dated April 25, 2018 and prepared by the Los Angeles Housing and Community Investment Department (HCIDLA), there were no residential units built and demolished on the subject site, which currently and have remained single-family residences and vacant land within the last five (5) years. Therefore, no AB 2556 replacement affordable units are required. As such, this eligibility requirement does not apply.

4. ***Other Density or Development Bonus Provisions.*** *A Housing Development shall not seek and receive a density or development bonus under the provisions of California Government Code Section 65915 (State Density Bonus law) or any other State or local program that provides development bonuses. This includes any development bonus or other incentive granting additional residential units or floor area provided through a General Plan Amendment, Zone Change, Height District Change, or any affordable housing development bonus in a Transit Neighborhood Plan, Community Plan Implementation Overlay (CPIO), Specific Plan, or overlay district.*

   The project is not seeking any additional density or development bonuses under the provisions of the State Density Bonus Law or any other State or local program that provides development bonuses, including, but not limited to a General Plan Amendment, Zone Change, Height District Change, or any affordable housing development bonus in a Transit Neighborhood Plan, Community Implementation Overlay (CPIO), Specific Plan, or overlay district. As such, the project meets this eligibility requirement.

5. ***Base Incentives and Additional Incentives.*** *All Eligible Housing Developments are eligible to receive the Base Incentives listed in Section VI of the TOC Guidelines. Up to three Additional Incentives listed in Section VII of the TOC Guidelines may be granted based upon the affordability requirements described below. For the purposes of this*

section below, "base units" refers to the maximum allowable density allowed by the zoning, prior to any density increase provided through these Guidelines. The affordable housing units required per this section may also count towards the On-Site Restricted Affordable Units requirement in the Eligibility Requirement No. 1 above (except Moderate Income units).

a. *One Additional Incentive may be granted for projects that include at least 4% of the base units for Extremely Low Income Households, at least 5% of the base units for Very Low Income Households, at least 10% of the base units for Lower Income Households, or at least 10% of the base units for persons and families of Moderate Income in a common interest development.*
b. *Two Additional Incentives may be granted for projects that include at least 7% of the base units for Extremely Low Income Households, at least 10% of the base units for Very Low Income Households, at least 20% of the base units for Lower Income Households, or at least 20% of the base units for persons and families of Moderate Income in a common interest development.*
c. *Three Additional Incentives may be granted for projects that include at least 11% of the base units for Extremely Low Income Households, at least 15% of the base units for Very Low Income Households, at least 30% of the base units for Lower Income Households, or at least 30% of the base units for persons and families of Moderate Income in a common interest development.*

The project is seeking three (3) Additional Incentives, which requires at least 11 percent, or five (5) units, of the 44 base units to be set aside for Extremely Low Income Households. The project will reserve 45 units for Extremely Low Income Households and 19 units for Low Income Households. As such, the project meets the eligibility requirement for three (3) Additional Incentives.

6. ***Projects Adhering to Labor Standards.*** *Projects that adhere to the labor standards required in LAMC 11.5.11 may be granted two Additional Incentives from the menu in Section VII of these Guidelines (for a total of up to five Additional Incentives).*

   The project is seeking one (1) Additional Incentive beyond the three (3) Additional Incentives permitted per Section IV.5 of the TOC Guidelines. As such, the project has been conditioned to adhere to the labor standards set forth in LAMC Section 11.5.11. As conditioned, the project meets the eligibility requirement for one (1) Additional Incentive beyond the three (3) Additional Incentives permitted per Section IV.5 of the TOC Guidelines.

7. ***Multiple Lots.*** *A building that crosses one or more lots may request the TOC Incentives that correspond to the lot with the highest Tier permitted by Section III above.*

   The project site consists of three (3) lots, all of which are located within a Tier 2 TOC Affordable Housing Incentive Area. As such, this eligibility requirement does not apply.

8. ***Request for a Lower Tier.*** *Even though an applicant may be eligible for a certain Tier, they may choose to select a Lower Tier by providing the percentage of On-Site Restricted Affordable Housing units required for any lower Tier and be limited to the Incentives available for the lower Tier.*

The applicant has not selected a Lower Tier and is not providing the percentage of On-Site Restricted Affordable Housing units required for any lower Tier. As such, this eligibility requirement does not apply.

9. ***100% Affordable Housing Projects.*** *Buildings that are Eligible Housing Developments that consist of 100% On-Site Restricted Affordable units, exclusive of a building manager's unit or units shall, for purposes of these Guidelines, be eligible for one increase in Tier than otherwise would be provided.*

   The project will reserve all 64 units for Extremely Low and Low Income Households. As such, the project meets the eligibility requirement for one increase in Tier to a Tier 3 TOC Affordable Housing Incentive Area.

TRANSIT ORIENTED COMMUNITIES AFFORDABLE HOUSING INCENTIVE PROGRAM / AFFORDABLE HOUSING INCENTIVES COMPLIANCE FINDINGS

Pursuant to Section 12.22 A.31(e) of the LAMC, the Director shall review a Transit Oriented Communities (TOC) Affordable Housing Incentive Program project application in accordance with the procedures outlined in LAMC Section 12.22 A.25(g).

1. **Pursuant to Section 12.22 A.25(g) of the LAMC, the Director shall approve a density bonus and requested incentives unless the Director finds that:**

   a. **The incentives are not required to provide for affordable housing costs as defined in California Health and Safety Code Section 50052.5 or Section 50053 for rents for the affordable units.**

      The record does not contain substantial evidence that would allow the Director to make a finding that the requested incentives are not necessary to provide for affordable housing costs per State Law. The California Health & Safety Code Sections 50052.5 and 50053 define formulas for calculating affordable housing costs for Very Low, Low, and Moderate Income Households. Section 50052.5 addresses owner-occupied housing and Section 50053 addresses rental households. Affordable housing costs are a calculation of residential rent or ownership pricing not to exceed 25 percent gross income based on area median income thresholds dependent on affordability levels.

      The list of incentives in the TOC Guidelines were pre-evaluated at the time the TOC Affordable Housing Incentive Program Ordinance was adopted to include types of relief that minimize restrictions on the size of the project. As such, the Director will always arrive at the conclusion that the on-menu incentives are required to provide for affordable housing costs because the incentives by their nature increase the scale of the project.

      The following incentives allow the developer to reduce a side yard setback, rear yard setback, usable open space and common open space and increase the maximum allowable building height so that all 64 affordable housing units reserved for Extremely Low and Low Income Households can be constructed and the overall space dedicated to residential uses is increased. These incentives are expressed in the Menu of Incentives in the TOC Guidelines which permit exceptions to zoning requirements that result in building design or construction efficiencies that facilitate affordable housing costs. These incentives also support the applicant's decision to reserve 100 percent of 64 total units for Extremely Low and Low Income Households.

Northerly Side Yard and Rear Yard : A 30-percent reduction in the northerly side yard setback to permit seven (7) feet in lieu of 10 feet as otherwise required by Section 6.F.1 of the Central City West Specific Plan, and a 30-percent reduction in the rear yard setback to permit a minimum of 13 feet, 4 inches in lieu of 19 feet as otherwise required by Section 6.F.1 of the Central City West Specific Plan;

Usable Open Space. A 25-percent reduction in the minimum usable open space to permit a minimum of 5,307 square feet in lieu of 7,075 square feet as otherwise required by LAMC Section 12.21 G.2;

Common Open Space. A 17.1-percent reduction in the minimum common open space to permit a minimum of 5,306 square feet in lieu of 6,400 square feet as otherwise required by Section C.1(a) of Appendix D of the Central City West Specific Plan; and

Height. An 11-foot increase in the maximum building height to permit a maximum of 86 feet in lieu of 75 feet as otherwise required by Section 6.C of the Central City West Specific Plan.

b. **The Incentives will not have a specific adverse impact upon public health and safety or the physical environment, or on any real property that is listed in the California Register of Historical Resources and for which there are no feasible method to satisfactorily mitigate or avoid the specific adverse Impact without rendering the development unaffordable to Very Low, Low and Moderate Income Households. Inconsistency with the zoning ordinance or the general plan land use designation shall not constitute a specific, adverse impact upon the public health or safety.**

There is no evidence in the record that the requested incentives will have a specific adverse impact. A "specific adverse impact" is defined as, "a significant, quantifiable, direct and unavoidable impact, based on objective, identified written public health or safety standards, policies, or conditions as they existed on the date the application was deemed complete" (LAMC Section 12.22 A.25(b)). The finding that there is no evidence in the record that the proposed incentives will have a specific adverse impact is further supported by the CEQA findings. The findings to deny an incentive under Density Bonus Law and TOC Guidelines are not equivalent to the findings for determining the existence of a significant unavoidable impact under CEQA. However, under a number of CEQA impact thresholds, the City is required to analyze whether any environmental changes caused by the project have the possibility to result in impacts on public health and safety, physical environment, or any real property that is listed in the California Register of Historical Resources. The proposed project's potential impacts were analyzed in accordance with the State CEQA Statute and Guidelines. Analysis of the proposed project determined that the project is statutorily exempt from environmental review pursuant to Sections 15192 and 15194 of the State CEQA Statute and Guidelines. The project qualifies for a statutory exemption from CEQA as set forth in Section 15194 of the State CEQA Guidelines and meets the threshold requirements set forth in Section 15192 of the State CEQA Guidelines. Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194 included in the case file provides an analysis of the project and the threshold criteria set forth in Section 15192 of the CEQA Guidelines. Therefore, there is no substantial evidence that the proposed project will have a specific adverse impact

upon public health and safety or the environment, or on any real property that is listed on the California Register of Historical Resources.

PROJECT PERMIT COMPLIANCE FINDINGS

1. **The project substantially complies with the applicable regulations, findings, standards, and provisions of the specific plan.**

   a. **Use.** The subject site is designated R4(CW)-75/3-O within the North Subarea (Temple/Beaudry Neighborhood District) of the Central City West Specific Plan ("Specific Plan"). Section 6.F.1 of the Specific Plan states that the use regulations of the R4 Zone, as specified in LAMC Section 12.11 "R4 Multiple Dwelling Zone," shall apply to all lots in the R4(CW) Category within the Specific Plan area. LAMC Section 12.11 allows multi-family residential uses with a base density of one (1) dwelling unit per 400 square feet of lot area, which results in a base density of 44 dwelling units for the subject site with 17,330 square feet of lot area. However, the applicant requests a Base Incentive per the TOC Affordable Housing Incentive Program for 45-percent increase in density to permit a total of 64 dwelling units in lieu of 44 dwelling units in exchange for setting aside at least 10 percent, or seven (7) units, of 64 total units for Extremely Low Income Households. As such, in conjunction with the TOC Base Incentive request, the project complies with Section 6.F.1 of the Specific Plan.

   b. **Yards.** Section 6.F.1 of the Specific Plan states that the area regulations of the R4 Zone, as specified in LAMC Section 12.11 "R4 Multiple Dwelling Zone," shall apply to all lots in the R4(CW) Category within the Specific Plan area. LAMC Section 12.11 C states that the front yard setback in the R4 Zone shall comply with the 15-foot front yard setback required in the R3 Zone. LAMC Section 12.11 C requires a side yard setback of five (5) feet and one (1) additional foot for each additional story above the second story, which results in a minimum side yard setback of 10 feet for the proposed seven-story building. LAMC Section 12.11 C also requires a rear yard setback of 15 feet and one (1) additional foot for each additional story above the third story, which results in a minimum rear yard setback of 19 feet for the proposed seven-story building. However, the applicant requests an Additional Incentive[2] per the TOC Affordable Housing Incentive Program for a 30-percent reduction in the northerly side yard and rear yard setbacks, requiring a minimum seven (7)-foot northerly side yard setback and a minimum 13-foot, 4-inch rear yard setback. As shown in the table below, the project proposes 15-foot front yard, seven-foot northerly side yard, 10-foot southerly side yard, and 13-foot, 4-inch rear yard setbacks. As such, in conjunction with the TOC Additional Incentive request, the project complies with Section 6.F.1 of the Specific Plan.

	Required Setback per Specific Plan (Feet)	Required Setback with TOC Incentive (Feet)	Proposed Setback (Feet)
Front Yard	15	-	15
Northerly Side Yard	10	7	7
Southerly Side Yard	10	-	10
Rear Yard	19	13'-4"	13'-4"

[2] Per TOC Guidelines Section VII.1.a.ii.2, one Yard/Setback Additional Incentive includes a reduction in the required width of depth of two (2) individual yards or setbacks in Tier 4.

c. **Floor Area.** Section 6.I.1.a of the Specific Plan states that the Base Permitted Floor Area on a lot within the Specific Plan area shall be as shown by the Floor Area Ratio (FAR) specified on Map Nos. 2, 3, and 4. The project site is located on Map No. 2 and designated as R4(CW)-75/3-O, which permits a maximum FAR of 3:1 and a maximum floor area of 35,379 square feet. However, the project requests a Base Incentive per the TOC Affordable Housing Incentive Program for a 45-percent increase in the maximum allowable FAR to permit 4.35:1 in lieu of 3:1 with a maximum allowable floor area of 51,299 square feet. The project proposes a 4.17:1 FAR with 49,099 square feet of floor area. As such, in conjunction with the TOC Base Incentive request, the project complies with Section 6.I.1.a of the Specific Plan.

d. **Height.** Section 8.A.1 of the Specific Plan states that the maximum permitted height of a building or structure on a lot within the Specific Plan area shall be as shown by the height designations on Map Nos. 2, 3 and 4 of the Specific Plan. The project site is located on Map No. 2 and designated as R4(CW)-75/3-O, which permits a maximum height of 75 feet. However, the project requests an Additional Incentive per the TOC Affordable Housing Incentive Program for an 11-foot increase in the maximum allowable building height to permit 86 feet in lieu of 75 feet. The project proposes a maximum building height of 86 feet, as measured from grade to the roof ridge. As such, in conjunction with the TOC Additional Incentive request, the project complies with Section 8.A.1 of the Specific Plan.

e. **Open Space and Landscaping.** Section 8.D.2 of the Specific Plan requires that all multiple-family residential projects shall meet on-site per dwelling unit open space requirements as provided in the Urban Design Guidelines contained in Appendix D of the Specific Plan. Section C of Appendix D requires that a minimum of 100 square feet per unit of the required useable open space, as provided in Section 12.21 G of the LAMC, shall be provided as common open space. The project is subject to the total usable open space (common and private combined) requirement as set forth in LAMC Section 12.21 G as well as the minimum common open space required by the Specific Plan.

Per LAMC Section 12.21 G, the project must provide at a minimum the following usable open space per dwelling unit: 100 square feet for each unit having less than three habitable rooms; 125 square feet for each unit having three habitable rooms; and 175 square feet for each unit having more than three habitable rooms. The project proposes 28 studio, 17 one-bedroom, 15 two-bedroom, and four (4) three-bedroom units, which requires a minimum of 7,075 square feet of usable open space. In addition, per the Specific Plan, at least 6,400 square feet of total usable common open space must consist of common open space.

However, the applicant requests Additional Incentives per the TOC Affordable Housing Incentive Program for a 25-percent reduction in the minimum usable open space required to permit 5,307 square feet in lieu of 7,075 square feet, and a 17.1-percent reduction in the minimum common open space required to permit 5,306 square feet in lieu of 6,400 square feet. Open space requirements for the Project are as follows:

Type of Unit	Number of Units	Required OS per Unit per LAMC (sf)	Minimum Usable OS Required per LAMC (sf)	Required Common OS per Unit per Specific Plan (sf)	Minimum Common OS Required per Specific Plan (sf)
< 3 Hab. Rooms	45	100	4,500	100	4,500
= 3 Hab. Rooms	15	125	1,875	100	1,500
> 3 Hab. Rooms	4	175	700	100	400
Total	**64**	-	**7,075**	-	**6,400**
Total Required with TOC Incentive (sf)	-	-	**5,307**	-	**5,306**

The project will provide 5,307 square feet of usable open space, including 1,163 square feet of open space within the front yard setback, a 600-square-foot community room at the second floor level, a 726-square-foot community room and a 2,291-square-foot court yard at the third floor level, and 527 square feet of roof deck, thereby complying with the minimum usable open space requirement of 5,307 square feet. All of these open space areas consist of common open space, thereby complying with the minimum common open space requirement of 5,306 square feet.

Level	Common Open Space Areas	Area (sf)
Ground Floor	Front Yard	1,163
2nd Floor	Community Room	600
3rd Floor	Community Room	726
3rd Floor	Courtyard	2,291
7th Floor	Sky Deck	527
	TOTAL USABLE/COMMON OPEN SPACE PROVIDED	5,307
	Total Usable OS Required with TOC	**5,307**
	Total Common OS Required with TOC	**5,306**

Section C.1(c) of Appendix D of the Specific Plan allows for up to 50 percent of the area contained within the front yard area to be used to meet the open space per unit requirement. The project uses 50 percent, or 1,163 square feet, of the 2,326-square-foot front yard area to meet the open space per unit requirement, as shown in Exhibit "A." Section C.1(e) of Appendix D of the Specific Plan requires that interior courtyards have a minimum width of 10 feet, a minimum average width of 20 feet, and a minimum

area of 400 square feet, and that a minimum of 25 percent of interior courtyards shall be landscaped. As illustrated in Exhibit "A," the courtyard at the 3rd floor level has widths of 29 feet and 76 feet totaling 2,291 square feet in size. Additionally, per Exhibit "A," 574 square feet, or 25 percent, of the 2,291-square-foot courtyard will be landscaped.

In addition to the open space requirements, Section C.2 of Appendix D of the Specific Plan requires that a minimum of one (1) tree shall be provided on-site for every dwelling unit, a minimum of 50 percent of which shall be provided on site, and each of which shall be a minimum of 12 feet in height and three inches in caliper at the time of planting. The project is required to provide a total of 64 trees. As shown in Exhibit "A," 35 trees will be planted on-site. The Condition of Approval requires the trees to be a minimum of 12 feet in height and three (3) inches in caliper at the time of planting. The remaining 29 trees that cannot be accommodated on-site shall be provided through the payment of an in-lieu fee as specified in Article 2, Chapter VI, Section 62.177(b)(1) of the LAMC for each tree to be planted off-site per the Condition of Approval.

Sections C.3 and C.4 of Appendix D of the Specific Plan requires that all open space areas not used for building driveways, parking areas, recreational facilities or walks shall be attractively landscaped and maintained, and all landscaped areas shall be maintained with an automatic irrigation system. As shown in Exhibit "A," all open areas not used for aforementioned purposes will be attractively landscaped with a variety of shrubs, groundcover and trees. Per the Condition of Approval, all such areas shall be properly landscaped, irrigated and maintained.

f. **Parking.** Section 10.B of the Specific Plan states that off-street parking requirements for all uses other than office use shall be as specified in Section 12.21 A.4 of the LAMC. However, per the Base Incentive of the TOC Affordable Housing Incentive Program, the proposed project that consists of 100 percent affordable units is not required to provide any automobile parking spaces. Nonetheless, the project proposes 10 automobile parking spaces within a semi-subterranean parking garage. As such, in conjunction with the TOC Base Incentive request, the project complies with Section 10.B od the Specific Plan.

f. **Transportation Impact Fee.** Section 9.C of the Specific Plan requires that all projects within the Specific Plan area pay a Transportation Impact Mitigation Fee. However, Section 9.C.2 of the Plan states that residential uses are exempt from payment of the fee. The proposed project consists of 64 residential units and supportive services. Therefore, Section 9.C of the Specific Plan is not applicable.

g. **Inclusionary Housing Requirement.** Section 11.C.2 of the Specific Plan states that all multiple-family residential projects are subject to either the Replacement Dwelling Unit or Inclusionary Housing requirement as follows, whichever results in the greater number of affordable dwelling units:

1. Document and replace, on a one-for-one basis in the form of new dwelling units construction, Low and Very Low Income Dwelling Units and/or guest rooms demolished on the lot or lots on or after February 14, 1988; or
2. If no dwelling units were demolished on the lot or lots on or after February 14, 1988, a Project Applicant shall reserve a total of 15 percent of the dwelling units within the project as Low Income Dwelling Units.

The project is a 64-unit multi-family residential development. Per the Specific Plan, the project is required to reserve at least 10 units for Low Income Households. The proposed project is a 100 percent affordable housing development, consisting of 45 dwelling units reserved for Extremely Low Income Households and 19 units reserved for Low Income Households. Therefore, the project is in compliance with Section 11.C.2 of the Specific Plan.

2. **That the project incorporates mitigation measures, monitoring measures when necessary, or alternatives identified in the environmental review which would mitigate the negative environmental effects of the project, to the extent physically possible.**

Pursuant to California Environmental Quality Act (CEQA) Guidelines Sections 15192 Threshold Requirements for Exemptions for Agricultural Housing, Affordable Housing, and Residential Infill Projects and 15194 Affordable Housing Exemption, the proposed Affordable Housing Project is statutorily exempt from CEQA. As found in *Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194 ("Exemption Findings")* included in the case file, Case No. ENV-2018-3692-SE, the project meets all of the threshold criteria set forth in CEQA Guidelines Sections 15192 and 15194.

A Historic Resources Assessment Report ("Historic Report") has been prepared by Sapphos Environmental in October 2018 for the subject site. The Historic Report concludes that the main residence and detached garage located at 418 N. Firmin Street have been substantially altered and therefore, are not eligible for listing in federal, state, or local historical registers and are not historical resources pursuant to CEQA. The detached garage located at 430 N. Firmin Street is also not a contributing feature of the property located at 430 N. Firmin Street and is not considered to be a historical resource pursuant to CEQA. Therefore, demolition of the main residence and detached garage located at 418 N. Firmin Street and the detached garage located at 430 N. Firmin Street would not result in a substantial adverse change to a historical resource as defined in Section 15064.5(b) of the CEQA Guidelines.

On the other hand, the primary residence located at 430 N. Firmin Street constitutes a historical resource as defined in Section 15064.5(a) of the CEQA Guidelines, as the property is listed as a "Historic Resource" in Appendix A of the CCWSP, and potentially eligible for the National Register, the California Register, and as a Historic-Cultural Monument under Criteria A/1/1. As such, the proposed construction of the project may have a potentially significant impact on the existing primary residence (historical resource) located at 430 N. Firmin Street.

To mitigate any potential significant impacts on this historical resource, the applicant is required to relocate the main residence at 430 N. Firmin Street to a property located at 115 E. Avenue 35 in accordance with the U.S. Department of the Interior, Heritage Conservation and Recreation Service, Technical Preservation Services Division's *Moving Historic Buildings*, and the Secretary of Interior's Standards for the Treatment of Historic Buildings. The Historic Resource determined that with the implementation of the mitigation measures described in the Exemption Findings and incorporated into the Conditions of Approval herein, the project would have a less-than-significant effect on the historical resource. On May 6, 2019, the Office of Historic Resources of City of Los Angeles Department of City Planning reviewed and concurred with the findings and conclusion of the Historic Report. Furthermore, per the Condition of Approval, the applicant is required to submit a Relocation

and Rehabilitation Plan to the Office of Historic Resources for review and approval prior to issuance of any building permits.

In addition, as described in the Exemption Findings, various assessments have been conducted to identify potentially significant impacts on the environment from hazardous substances. The following documents have been prepared to analyze potentially significant impacts:

- Phase I Environmental Site Assessment (Phase I) conducted by EFI Global, Inc. on June 9, 2017
- Phase II Environmental Site Assessment (Phase II) conducted by EFI Global, Inc. on November 9, 2017
- Preliminary Geologic and Geotechnical Engineering Investigation conducted by GeoConcepts, Inc. in November 2017
- Subsurface Environmental Investigation conducted by Essel Environmental Engineering & Consulting (Essel) on April 30, 2018
- Additional Subsurface Environmental Investigation conducted by Essel on December 14, 2018
- Site Remediation Plan prepared by Essel on October 24, 2018

These documents conclude that the project may have potentially significant impacts from the existence and/or release of hazardous substances on the site. The project has been conditioned to implement mitigation measures identified in the Exemption Findings, including performing exploratory excavation in the areas of the site where historic oil wells are suspected to be present; preparation and submission of an Application for Construction Site Well Review and Notice(s) to the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) for the three potential historic oil wells at the site; design and installation of a methane mitigation system beneath the proposed building; preparation and implementation of a Site Management Plan, to be reviewed and approved by the Los Angeles County Fire Department, Health and Hazardous Materials Unit; abandonment of any oil wells identified at the site in accordance with the permit requirements of DOGGR; and enrollment in the Los Angeles County Fire Department, Health and Hazardous Materials Unit's Voluntary Oversight Program. With the implementation of the mitigation measures imposed as Conditions of Approval herein, the project would have less-than-significant effects on the environment from hazardous substances.

Based on the whole of the administrative record, the lead agency determined that the project is statutorily exempt from CEQA pursuant to CEQA Guidelines Sections 15192 and 15194, and with imposition of the mitigation measures described in the Exemption Findings and incorporated into the Conditions of Approval herein, the project will have less-than-significant impacts on the environment.

WAIVER OF DEDICATION AND IMPROVEMENT FINDINGS

North Firmin Street is designated a Local Limited Street per the Mobility Plan 2035 street standards, as this portion of North Firmin Street is a dead end street. The Mobility Plan 2035 requires a 50-foot full Public Right-of-Way ("PROW") consisting of a 30-foot roadway and 10-foot sidewalks, and a 25-foot half-width PROW consisting of a 15-foot roadway and 10-foot sidewalk for designated Local Limited Streets. The existing half-width PROW of Firmin Street facing the subject site measures 18 feet, consisting of a 15-foot half-roadway and three-foot sidewalk. The applicant initially filed a request for a Waiver of Dedication and Improvement to waive the seven (7)-foot dedication and sidewalk improvement to complete a 25-foot half-width PROW and create

a 10-foot sidewalk along Firmin Street adjoining the subject site. However, per the Bureau of Engineering letter dated May 13, 2019, the project is not subject to any dedication and improvement per LAMC Section 12.37 A, as the subject site neither abut a Major or Secondary Highway or Collector Street nor is considered to be a corner lot or an L-shaped interior lot abutting a Major or Secondary Highway and a Local Street which intersect. As such, the request for a Waiver of Dedication and Improvement is hereby dismissed.

ENVIRONMENTAL FINDINGS

Pursuant to California Environmental Quality Act (CEQA) Guidelines Sections 15192 Threshold Requirements for Exemptions for Agricultural Housing, Affordable Housing, and Residential Infill Projects and 15194 Affordable Housing Exemption, the proposed Affordable Housing Project is statutorily exempt from CEQA. As found in *Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194 ("Exemption Findings")* included in the case file, Case No. ENV-2018-3692-SE, the project meets all of the threshold criteria set forth in CEQA Guidelines Sections 15192 and 15194.

A Historic Resources Assessment Report ("Historic Report") has been prepared by Sapphos Environmental in October 2018 for the subject site. The Historic Report concludes that the main residence and detached garage located at 418 N. Firmin Street have been substantially altered and therefore, are not eligible for listing in federal, state, or local historical registers and are not historical resources pursuant to CEQA. The detached garage located at 430 N. Firmin Street is also not a contributing feature of the property located at 430 N. Firmin Street and is not considered to be a historical resource pursuant to CEQA. Therefore, demolition of the main residence and detached garage located at 418 N. Firmin Street and the detached garage located at 430 N. Firmin Street would not result in a substantial adverse change to a historical resource as defined in Section 15064.5(b) of the CEQA Guidelines.

On the other hand, the primary residence located at 430 N. Firmin Street constitutes a historical resource as defined in Section 15064.5(a) of the CEQA Guidelines, as the property is listed as a "Historic Resource" in Appendix A of the CCWSP, and potentially eligible for the National Register, the California Register, and as a Historic-Cultural Monument under Criteria A/1/1. As such, the proposed construction of the project may have a potentially significant impact on the existing primary residence (historical resource) located at 430 N. Firmin Street.

To mitigate any potential significant impacts on this historical resource, the applicant is required to relocate the main residence at 430 N. Firmin Street to a property located at 115 E. Avenue 35 in accordance with the U.S. Department of the Interior, Heritage Conservation and Recreation Service, Technical Preservation Services Division's *Moving Historic Buildings*, and the Secretary of Interior's Standards for the Treatment of Historic Buildings. The Historic Resource determined that with the implementation of the mitigation measures described in the Exemption Findings and incorporated into the Conditions of Approval herein, the project would have a less-than-significant effect on the historical resource. On May 6, 2019, the Office of Historic Resources of City of Los Angeles Department of City Planning reviewed and concurred with the findings and conclusion of the Historic Report. Furthermore, per the Condition of Approval, the applicant is required to submit a Relocation and Rehabilitation Plan to the Office of Historic Resources for review and approval prior to issuance of any building permits.

In addition, as described in the Exemption Findings, various assessments have been conducted to identify potentially significant impacts on the environment from hazardous substances. The following documents have been prepared to analyze potentially significant impacts:

- Phase I Environmental Site Assessment (Phase I) conducted by EFI Global, Inc. on June 9, 2017
- Phase II Environmental Site Assessment (Phase II) conducted by EFI Global, Inc. on November 9, 2017
- Preliminary Geologic and Geotechnical Engineering Investigation conducted by GeoConcepts, Inc. in November 2017
- Subsurface Environmental Investigation conducted by Essel Environmental Engineering & Consulting (Essel) on April 30, 2018
- Additional Subsurface Environmental Investigation conducted by Essel on December 14, 2018
- Site Remediation Plan prepared by Essel on October 24, 2018

These documents conclude that the project may have potentially significant impacts from the existence and/or release of hazardous substances on the site. The project has been conditioned to implement mitigation measures identified in the Exemption Findings, including performing exploratory excavation in the areas of the site where historic oil wells are suspected to be present; preparation and submission of an Application for Construction Site Well Review and Notice(s) to the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) for the three potential historic oil wells at the site; design and installation of a methane mitigation system beneath the proposed building; preparation and implementation of a Site Management Plan, to be reviewed and approved by the Los Angeles County Fire Department, Health and Hazardous Materials Unit; abandonment of any oil wells identified at the site in accordance with the permit requirements of DOGGR; and enrollment in the Los Angeles County Fire Department, Health and Hazardous Materials Unit's Voluntary Oversight Program. With the implementation of the mitigation measures imposed as Conditions of Approval herein, the project would have less-than-significant effects on the environment from hazardous substances.

Based on the whole of the administrative record, the lead agency determined that the project is statutorily exempt from CEQA pursuant to CEQA Guidelines Sections 15192 and 15194, and with imposition of the mitigation measures described in the Exemption Findings and incorporated into the Conditions of Approval herein, the project will have less-than-significant impacts on the environment.

TIME LIMIT – OBSERVANCE OF CONDITIONS

All terms and conditions of the Director's Determination shall be fulfilled before the use may be established. Pursuant to LAMC Section 12.25 A.2, the instant authorization is further conditional upon the privileges being utilized within **three years** after the effective date of this determination and, if such privileges are not utilized, building permits are not issued, or substantial physical construction work is not begun within said time and carried on diligently so that building permits do not lapse, the authorization shall terminate and become void.

TRANSFERABILITY

This determination runs with the land. In the event the property is to be sold, leased, rented or occupied by any person or corporation other than yourself, it is incumbent that you advise them regarding the conditions of this grant. If any portion of this approval is utilized, then all other conditions and requirements set forth herein become immediately operative and must be strictly observed.

VIOLATIONS OF THESE CONDITIONS, A MISDEMEANOR

The applicant's attention is called to the fact that this grant is not a permit or license and that any permits and licenses required by law must be obtained from the proper public agency. Furthermore, if any condition of this grant is violated or not complied with, then the applicant or his successor in interest may be prosecuted for violating these conditions the same as for any violation of the requirements contained in the Municipal Code, or the approval may be revoked.

Section 11.00 of the LAMC states in part (m): "It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this Code. Any person violating any of the provisions or failing to comply with any of the mandatory requirements of this Code shall be guilty of a misdemeanor unless that violation or failure is declared in that section to be an infraction. An infraction shall be tried and be punishable as provided in Section 19.6 of the Penal Code and the provisions of this section. Any violation of this Code that is designated as a misdemeanor may be charged by the City Attorney as either a misdemeanor or an infraction.

Every violation of this determination is punishable as a misdemeanor unless provision is otherwise made, and shall be punishable by a fine of not more than $1,000 or by imprisonment in the County Jail for a period of not more than six months, or by both a fine and imprisonment."

APPEAL PERIOD - EFFECTIVE DATE

The Determination in this matter will become effective and final fifteen (15) days after the date of mailing of the Notice of Director's Determination unless an appeal there from is filed with the City Planning Department. It is strongly advised that appeals be filed early during the appeal period and in person so that imperfections/incompleteness may be corrected before the appeal period expires. Any appeal must be filed on the prescribed forms, accompanied by the required fee, a copy of this Determination, and received and receipted at a public office of the Department of City Planning on or before the above date or the appeal will not be accepted. Forms are available on-line at http://planning.lacity.org.

Planning Department public offices are located at:

Figueroa Plaza
201 North Figueroa Street
4th Floor
Los Angeles, CA 90012
(213) 482-7077

Marvin Braude San Fernando
Valley Constituent Service Center
6262 Van Nuys Boulevard, Room 251
Van Nuys, CA 91401
(818) 374-5050

West Los Angeles
1828 Sawtelle Boulevard
2nd Floor
Los Angeles, CA 90025
(310) 231-2901

Only an applicant or any owner or tenant of a property abutting, across the street or alley from, or having a common corner with the subject property can appeal this Density Bonus Compliance Review Determination. Per the Density Bonus Provision of State Law (Government Code Section §65915) the Density Bonus increase in units above the base density zone limits and the appurtenant parking reductions are not a discretionary action and therefore cannot be appealed. Only the requested incentives are appealable. Per Section 12.22 A.25 of the LAMC, appeals of Density Bonus Compliance Review cases are heard by the City Planning Commission.

Verification of condition compliance with building plans and/or building permit applications are done at the Development Services Center of the Department of City Planning at Figueroa Plaza in Downtown Los Angeles, Marvin Braude Constituent Service Center in the Valley, or in West Los Angeles. In order to assure that you receive service with a minimum amount of waiting,

applicants are encouraged to schedule an appointment with the Development Services Center either through the Department of City Planning website at http://planning.lacity.org or by calling (213) 482-7077, (818) 374-5050, or (310) 231-2901. The applicant is further advised to notify any consultant representing you of this requirement as well.

The time in which a party may seek judicial review of this determination is governed by California Code of Civil Procedures Section 1094.6. Under that provision, a petitioner may seek judicial review of any decision of the City pursuant to California Code of Civil Procedure Section 1094.5, only if the petition for writ of mandate pursuant to that section is filed no later than the 90th day following the date on which the City's decision becomes final.

VINCENT P. BERTONI, AICP
Director of Planning

Approved by:

Jane Choi, Senior City Planner

Prepared by:

Nuri Cho, City Planning Associate
Nuri.Cho@lacity.org

EXHIBIT G

Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194 and Appendices[1]

Case No. DIR-2018-3691-TOC-SPP-WDI-1A

[1] An electronic copy of the Appendices is available via Hightail and the CPC meeting agenda. A hard copy of the Appendices are available in the case file, Case No. ENV-2018-3692-SE.

CITY OF LOS ANGELES
DEPARTMENT OF CITY PLANNING
CITY HALL 200 NORTH SPRING STREET LOS ANGELES CA 90012

FINDINGS SUPPORTING A STATUTORY EXEMPTION PURSUANT TO CEQA GUIDELINES SECTIONS 15192 AND 15194

Firmin Court Project

Case Number: ENV-2018-3692-SE

Project Location: 418, 426, 430 N. Firmin Street, Los Angeles, California 90026

Community Plan Area: Westlake

Council District: CD 1 – Gilbert Cedillo

Project Description: The Project would involve the demolition of the existing single-family residence located at 418 N. Firmin Street, and the construction of a seven-story, 64-unit, 100 percent Affordable Housing project at 418, 426 and 430 N. Firmin Street (the "Project Site"). The single-family residence located at 430 N. Firmin Street is potentially eligible for the National Register, the California Register, and as a local Historic Cultural Monument (HCM). The Project would consist of 45 Permanent Supportive Housing (PSH) units reserved for Extremely Low Income Households, 19 units reserved for Low Income Households, and approximately 2,200 square feet of PSH supportive services areas including office, kitchen and community rooms. Parking for the Project would be provided on the first floor in a parking area that includes 10 spaces. The Project would also provide a total of 51 long-term bicycle parking spaces and five short-term bicycle parking spaces. The Project proposes to reach a maximum height not to exceed 86 feet in seven stories, as measured from the lowest finished grade adjacent to the proposed Project building to the roof ridge. The total floor area of the Project would be a maximum of 51,299 square feet, resulting in a maximum Floor Area Ratio (FAR) of 4.35:1. The existing single-family residence located at 430 N. Firmin Street would be relocated to 115 E. Avenue 35 as mitigation in accordance with the Secretary of Interior's Standards for Historic Preservation. Four existing non-protected trees located on-site would be removed as part of the Project. There are no trees in the public right-of-way. The Project would require the export of approximately 1,344 cubic yards of soil from the Project Site. In order to permit development of the Project, the City of Los Angeles (the "City") may require approval of one or more of the following discretionary actions: (1) Project Permit Compliance Review pursuant to Los Angeles Municipal Code (LAMC) Section 11.5.7 C and Central City West Specific Plan Section 17.A.1 for the Proposed Project located within the Central City West Specific Plan; (2) Transit Oriented Communities Affordable Housing Incentive Program (TOC Guidelines) pursuant to LAMC Section 12.22 A.31 to utilize all of the Base Incentives and four Additional Incentives; (3) Waiver of Dedication and Improvement pursuant to LAMC Section 12.37 I.3 to waive the seven-foot public right-of-way dedication and sidewalk improvement; (4) Haul Route to export more than 1,000 cubic yards of earth material in a designated Bureau of Engineering Special Grading Area; (5) Demolition, grading, excavation, and building permits; and (6) Other permits, ministerial or discretionary, that may be necessary in order to execute and implement the Project.

PREPARED FOR:
The City of Los Angeles
Department of City Planning

PREPARED BY:
EcoTierra Consulting

APPLICANT:
Firmin Court, L.P.

May 2019

Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194

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B Bureau of Engineering Letter regarding dedications
C Air Quality, Global Climate Change, and Health Risk Assessment Impact Analysis (Air Quality Report)
D Firmin Court Project Noise Impact Analysis (Noise Report)
E NAHC Sacred Lands File Search Results
F Historic Resources Assessment Report
G Tree Survey
H Phase I Environmental Site Assessment (Phase I
Phase II Environmental Site Assessment (Phase II)
Preliminary Geologic and Geotechnical Engineering Investigation
Subsurface Environmental Investigation
Additional Subsurface Environmental Investigation
Site Remediation Plan

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Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194

1. Introduction

The subject of this document is the proposed Firmin Court Project (the "Project") involving the demolition of an existing single-family residence located at 418 N. Firmin Street, and the construction of a 100 percent affordable housing development consisting of 64 residential apartment units, 45 of which will be Permanent Supportive Housing (PSH) reserved for Extremely Low Income Households and 19 of which will be reserved for Low Income Households, located at 418, 426 and 430 N. Firmin Street (the "Project Site") in the Westlake Community Plan Area of the City of Los Angeles (the "City"). The Project is discussed in further detail in Section II, Project Description. The City of Los Angeles Department of City Planning is the Lead Agency under the California Environmental Quality Act (CEQA).

Project Information

Project Title: Firmin Court Project

Project Applicant: Firmin Court, L.P.

Project Location: 418, 426, 430 N. Firmin Street, Los Angeles, California 90026

Lead Agency: City of Los Angeles Department of City Planning
200 N. Spring Street, Room 621
Los Angeles, CA 90012

Organization of the Statutory Exemption

This document is organized into three sections as follows:

Introduction: This Section provides introductory information such as the Project title, the Project Applicant, and the designated Lead Agency for the Project.

Project Description: This Section provides a detailed description of the Project including the environmental setting, Project characteristics, related project information, Project objectives, and environmental clearance requirements.

Statutory Exemption Analysis: This section contains a consistency analysis of the Project with the appropriate CEQA Exemption class and the threshold criteria set forth in CEQA Guidelines Sections 15192 and 15194.

Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194

2. Project Description

Project Summary

The Project would involve the demolition of the existing single-family residence located at 418 N. Firmin Street and the construction of a seven-story, 64-unit, 100 percent Affordable Housing project (the "Project"). The Project would consist of 45 Permanent Supportive Housing (PSH) units reserved for Extremely Low Income Households, 19 units reserved for Low Income Households, and approximately 2,200 square feet of PSH supportive services areas including office, kitchen and community rooms. Parking for the Project would be provided on the first floor in a parking area that includes 10 spaces. The Project would also provide a total of 51 long-term bicycle parking spaces and five short-term bicycle parking spaces. The Project proposes to reach a maximum height not to exceed 86 feet in seven stories, as measured from the lowest finished grade adjacent to the Project building to the roof ridge. The total floor area of the Project would be a maximum of 51,299 square feet, resulting in a maximum Floor Area Ratio (FAR) of 4.35:1. The existing single-family residence located at 430 N. Firmin Street would be relocated to 115 E. Avenue 35 as mitigation in accordance with the Secretary of Interior's Standards for Historic Preservation. Four existing non-protected trees located on-site would be removed as part of the Project. There are no trees in the public right-of-way. The Project would require the export of approximately 1,344 cubic yards of soil from the Project Site. In order to permit development of the Project, the City of Los Angeles (the "City") may require approval of one or more of the following discretionary actions: (1) Project Permit Compliance Review pursuant to Los Angeles Municipal Code (LAMC) Section 11.5.7 C and Central City West Specific Plan Section 17.A.1 for the Project located within the Central City West Specific Plan; (2) Transit Oriented Communities Affordable Housing Incentive Program (TOC Guidelines) pursuant to LAMC Section 12.22 A.31 to utilize all of the Base Incentives and four Additional Incentives; (3) Waiver of Dedication and Improvement pursuant to LAMC Section 12.37 I.3 to waive the seven-foot public right-of-way dedication and sidewalk improvement; (4) Haul Route to export more than 1,000 cubic yards of earth material in a designated Bureau of Engineering Special Grading Area; (5) Demolition, grading, excavation, and building permits; and (6) Other permits,

ministerial or discretionary, that may be necessary in order to execute and implement the Project.

Environmental Setting

Project Location

The Project Site is located at 418-430 N. Firmin Street in the Westlake community of the City. The 0.4-acre Project Site is bounded by Firmin Street to the west, a vacant lot, a surface parking lot, and commercial and residential buildings to the north, and single and multi-family residential uses to the east and south (see Figure 2-1, Vicinity and Regional Map).

The Project Site consists of three adjoining parcels (Assessor's Parcel Numbers 5160-022-12, -006, and -007). Figure 2-2, Aerial Photograph of Project Site, presents an aerial view of the Project Site and Figure 2-3, Existing Views of the Project Site, presents photographs of the current Project Site conditions and existing buildings.

Regional and Local Access

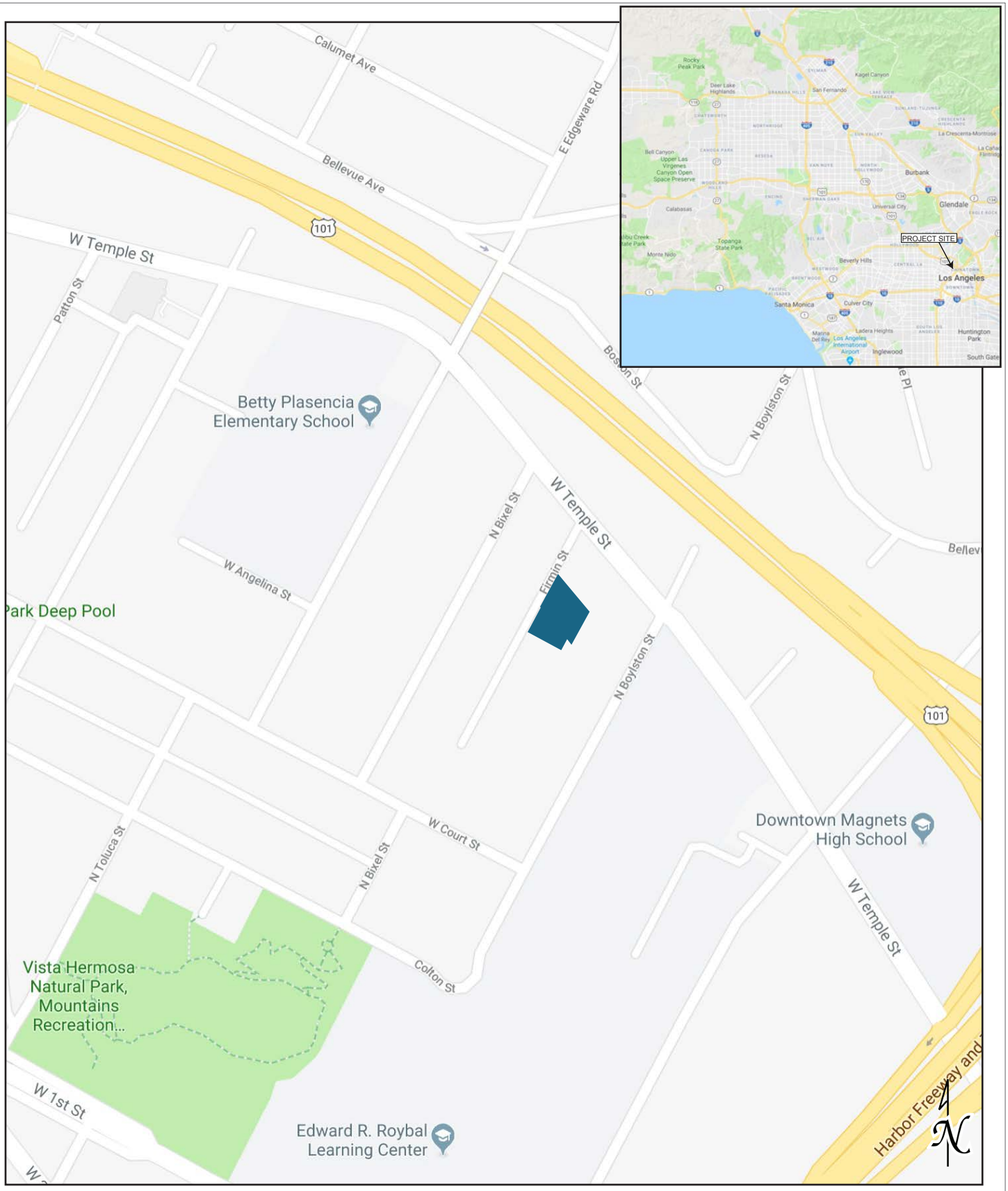
Regional access to the Project Site is provided via the Hollywood Freeway (US Route 101) and the Harbor Freeway (CA-110). The nearest freeway access to the Hollywood Freeway via Temple Street and the Harbor Freeway via Figueroa Street, approximately 0.5 mile to the southeast of the Project Site. Local access to the Project Site is provided via Firmin Street and Temple Street.

Public Transportation

The Los Angeles County Metropolitan Transportation Authority (Metro) provides local bus service in the Project area. Metro Bus Line 10 and DASH Bus Pico Union/Echo Park intersect at the corner of Temple Street and Edgeware Road. This intersection is located less than 750 feet from the Project Site. Metro Bus Line 10 runs east/west every three to 15 minutes on West Temple Street and the DASH Bus Pico Union/Echo Park runs north/south on Edgeware Road every 10 minutes during peak hours.

Existing Conditions

The Project Site is currently improved with a single-family residence built in 1890 (418 N. Firmin Street), a vacant lot (426 N. Firmin Street), and a single-family residence built in 1895 (430 N. Firmin Street). The single-family residence located at 430 N. Firmin Street is listed as a potentially historic resource in Appendix A of the Central City West Specific Plan (CCWSP).

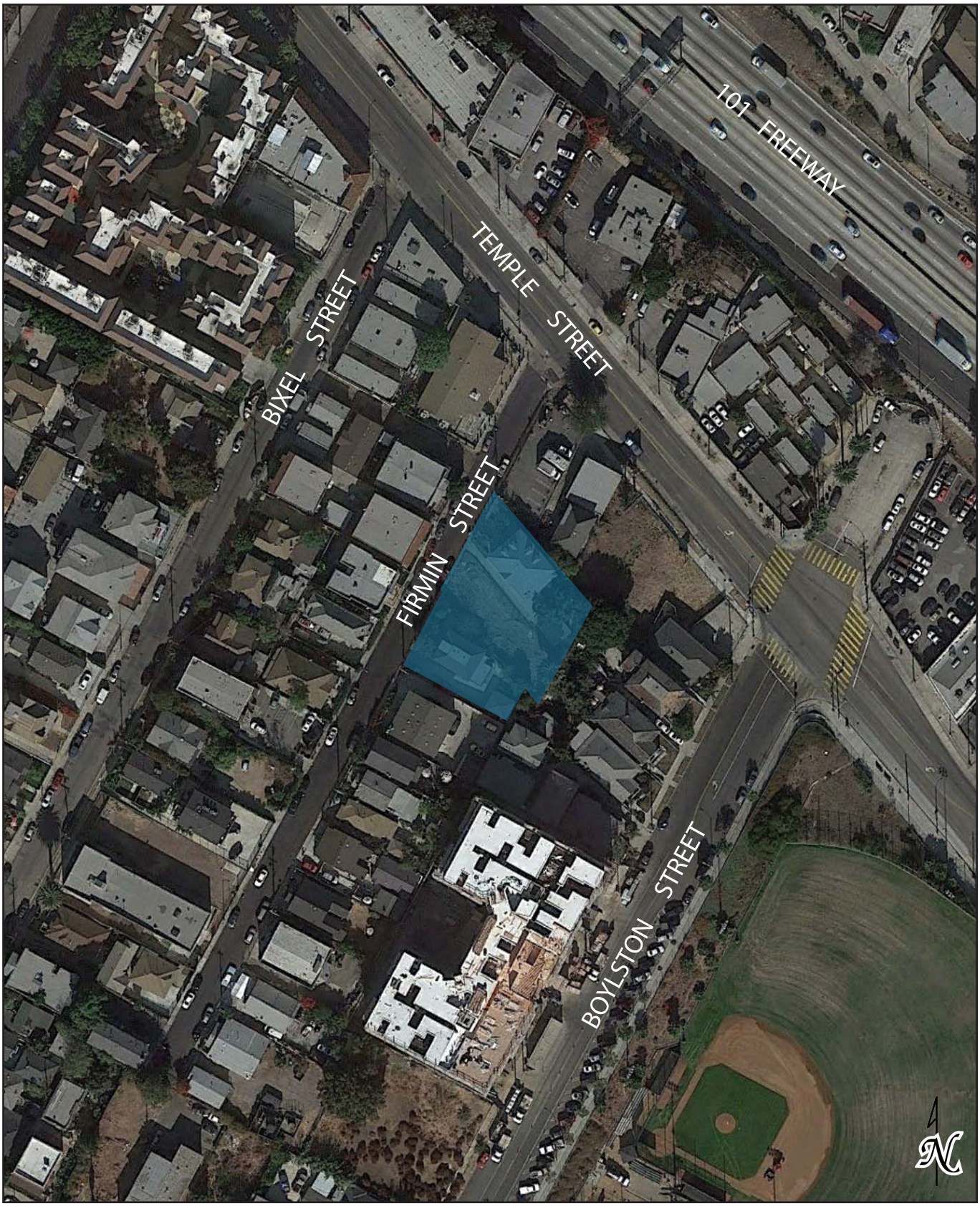


Project Site

Source: GoogleEarth, August 2018.

EcoTierra consulting

Figure 2-1
Vicinity and Regional Map



Project Site
Source: GoogleEarth, August 2018.

EcoTierra consulting

Figure 2-2
Aerial Photograph of Project Site



View 1: Street frontage of 430 N. Firmin Street, facing east.



View 2: Street frontage of 426 N. Firmin Street, facing east.



View 3: Street frontage of 418 N. Firmin Street, facing east.

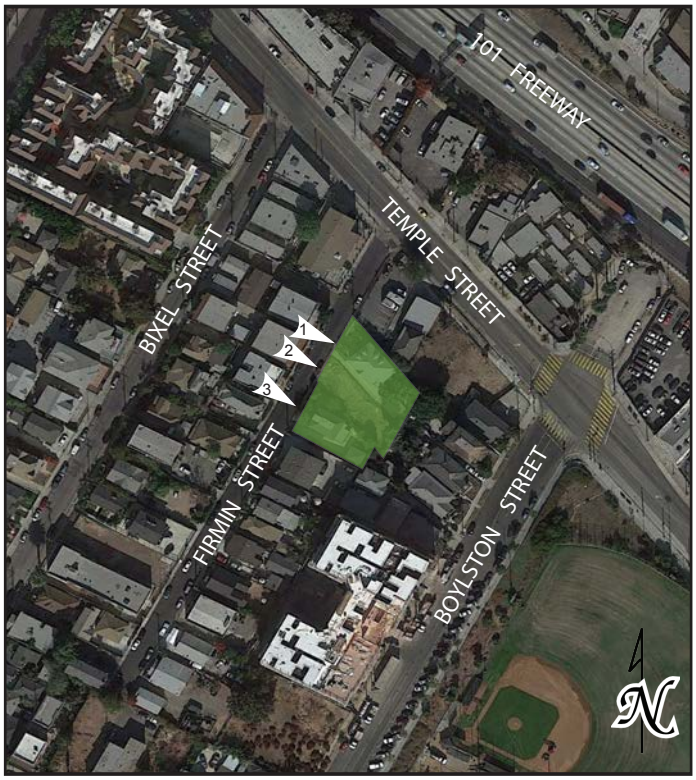


PHOTO LOCATION MAP

Source: Craig Lawson & Co. June 2018.

EcoTierra consulting

Figure 2-3
Existing Views of the Project Site
Views 1, 2, and 3

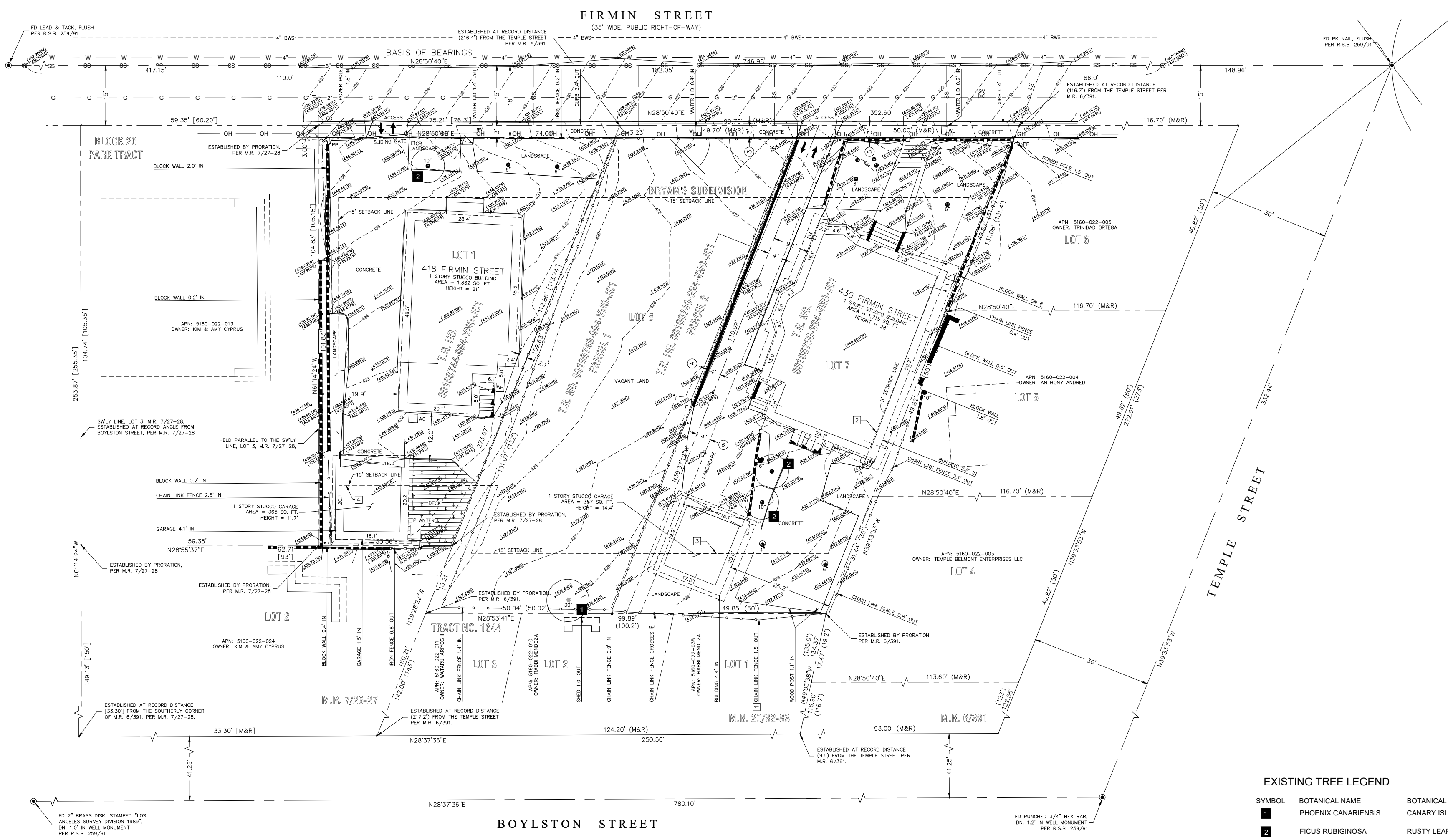
As further discussed in Section 3, the Historic Resources Assessment Report (Historic Report) prepared for the Project determined that the primary residence located at 430 N. Firmin Street is potentially eligible for the National Register, the California Register, and as an Historic-Cultural Monument (HCM) under Criteria A/1/1 (events) and that the single-family residence at 418 N. Firmin Street is not eligible for the National Register, the California Register, or as a local HCM. This is further discussed and evaluated in Section 3.

North Firmin Street is on an incline, sloping upwards to the north. As such, the Project Site is also sloped. A geophysical survey was conducted in an attempt to locate any potential on-site former oil wells. As further discussed in Section 3, EFI Global identified two historic oil wells at the site, based on review of California Division of Oil, Gas & Geothermal Resources (DOGGR) maps. Online DOGGR records show one oil well, identified as H. Rogalske well 1-1, was discovered beneath a driveway at 418 Firmin Street and this well was plugged and abandoned in May 1941. A second oil well, identified as H. Rogalske well 2A, appears to have been located on the 426 Firmin Street parcel and no DOGGR records are available for this well. However, one anomaly at approximately four feet below ground surface (bgs) near the south corner of the 426 Firmin Street parcel was identified during subsurface investigations. The location of this anomaly coincides with the location of an oil well (API: 03725669) depicted in the DOGGR Well Finder online database. Based on the age of the surrounding Los Angeles Oil Field, the onsite well was likely abandoned prior to the development of strict regulatory protocol. The potential existence of oil wells and remediation of up to three on-site oil wells are discussed in Section 3.

There are four trees existing on the Project Site, none of which are protected by the LAMC, including one Canary Island Date Palm (*Phoenix canariensis*), one Rusty Leaf Fig (*Ficus rubrignosa*), one California Avocado (*Persea americana*), and one Giant Bird of Paradise (*Strelitzia nicolai*). Four existing non-protected trees would be removed as part of the Project; there are no existing street trees along N. Firmin Street (see Figure 2-4, Existing Tree Survey).

Surrounding Land Uses

The Project Site is located within an urbanized setting in the Westlake community of the City, northwest of downtown Los Angeles. The surrounding area is characterized by residential and commercial uses, with one- to three-story single- and multi-family residential uses along Firmin Street. Land uses that immediately abut the Project Site include a vacant lot, a surface parking lot and commercial and residential buildings to the north, single-family and multi-family residential uses to the east, two-story multi-family residential uses to the west across Firmin Street, and a two-story multi-family residential use to the south.



EXISTING TREE LEGEND

SYMBOL	BOTANICAL NAME	BOTANICAL NAME	CALIPER SIZE
1	PHOENIX CANARIENSIS	CANARY ISLAND DATE PALM	30"
2	FICUS RUBIGINOSA	RUSTY LEAF FIG	10"
1	PERSEA AMERICANA	CALIFORNIA AVOCADO	10"
1	STRELITZIA NICOLAI	GIANT BIRD OF PARADISE	10"

Source: Fong Hart Schneider Partners, April 2018.

Beyond the immediately abutting land uses in the adjoining area, there are single- and multi-family residential uses to the west, east, and south, and commercial and institutional uses, including a church, to the north along Temple Street. To the east, a six-story, 121-unit residential apartment building is under construction at 401 N. Boylston Street.

The Hollywood Freeway is located just north of the commercial uses on Temple Street. Echo Park Congregation Church is located approximately 45 feet northwest (across Firmin Street). In addition, the fields for Civitas School of Leadership and Edward R. Roybal Learning Center are located as close as approximately 210 feet southeast and Betty Plasencia Elementary School and Angelina Preschool are located approximately 575 feet west. Views of the surrounding land uses are shown on Figures 2-5 and 2-6.

Land Use Plans/Zoning

The Project Site is located within the Westlake Community Plan (the "Community Plan") Area, which designates the Site for High Medium Residential land uses.[1] The Project Site is also located within the North Subarea (Temple/Beaudry Neighborhood District) of the Central City West Specific Plan (the "CCWSP"). The Project Site is zoned CW "Central City West Specific Plan Zone," which indicates that the development regulations on the Project Site is established by the CCWSP Ordinance. The CCWSP identifies land use categories and height/floor area ratio districts that guide development on-site. The Project Site has a land use category and height/floor area ratio district of R4(CW)-75/3-O, which allows land use, density and setback regulations of the R4 Zone per LAMC Section 12.11 and a maximum height of 75 feet and FAR of 3:1. The R4 land use category allows a maximum of 44 dwelling units on-site with a 15-foot front yard setback, 10-foot side yard setbacks, and a 19-foot rear yard setback for the Project. The R4 land use category also permits church uses, schools, museums, shelter for homeless, and multi-family residential uses. The "O" designation identifies the Project Site in an oil-drilling district.

The Project Site is located within a Bureau of Engineering (BOE) Special Grading Area, methane zone, urban agriculture-incentive zone, and Los Angeles State Enterprise Zone.

[1] *Pursuant to Council File #87-0168-S2, dated December 18, 1990, the City Council adopted a PLUM Report which instruct the City Planning Department to amend the Westlake Community Plan by changing the land use designation on the Subarea 470 lots R3 (CW) properties medium density housing to high medium density housing, and the Subarea 740 RC3 (CW) properties from medium/limited commercial to high medium limited commercial. Note that by 1992, the CCWSP amendment rezoned the Firmin site to R4.*



View 1: View of multi-family use (414 N. Firmin Street) adjacent to Project Site on N. Firmin Street, facing east.



View 2: View of the surface parking lot on the south-west corner of Temple Street and Firmin Street.



View 3: Street frontage of westerly multi-family uses, facing north from Firmin Street.

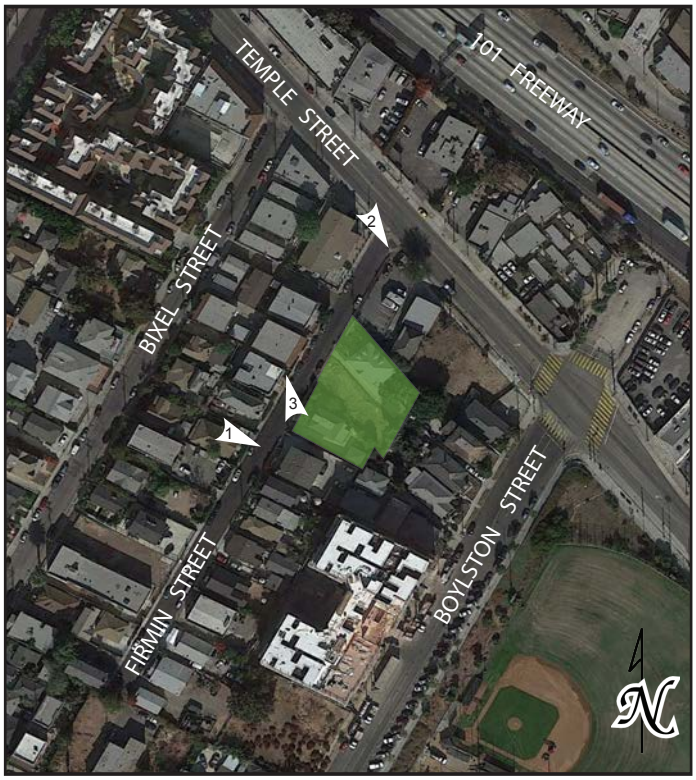


PHOTO LOCATION MAP

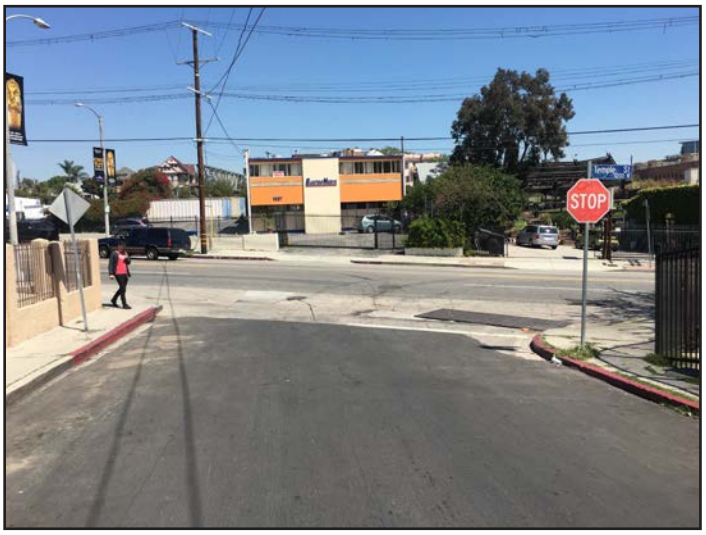
Source: Craig Lawson & Co. June 2018.

EcoTierra consulting

Figure 2-5
Views of the Surrounding Land Uses
Views 1, 2, and 3



View 4: Alley facing west from Firmin Street connecting to Bixel Street.



View 5: Intersection of Temple Street and Firmin Street on Firmin Street, facing north.



View 6: View of Firmin Street parallel to 430 N. Firmin Street, facing south from Firmin Street.



PHOTO LOCATION MAP

Source: Craig Lawson & Co. June 2018.

EcoTierra consulting

Figure 2-6
Views of the Surrounding Land Uses
Views 4, 5, and 6

Transit Priority Area

Pursuant to Public Resources Code (PRC) Section 21099 (Senate Bill [SB] 743), the Project Site is within a Transit Priority Area (TPA) (see also City Zoning Information File No. 2452). A TPA is an area within one-half mile of a major transit stop that is existing or planned. Section 21064.3 of the Public Resources Code defines a "major transit stop" as a site containing a rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with frequency of service of 15 minutes or less during the morning and afternoon peak commute periods.

For purposes of Section 21099 of the PRC, a TPA also includes major transit stops in the City that are scheduled to be completed within the planning horizon of the Southern California Association of Governments (SCAG) Regional Transportation Plan/ Sustainable Community Strategy (RTP/SCS).

Metro provides local bus service in the Project Site area. Metro Bus Line 10 and DASH Bus Pico Union/Echo Park intersect at the corner of Temple Street and Edgeware Road. This intersection is located less than 750 feet from the Project Site. Metro Bus Line 10 runs east/west every three to 15 minutes on West Temple Street and the DASH Bus Pico Union/Echo Park runs north/south on Edgeware Road every 10 minutes during peak hours. Therefore, the City has designated the Project area, including the Project Site, as a City TPA.[2]

Transit Oriented Communities (TOC) Affordable Housing Incentive Program

Pursuant to Measure JJJ, LAMC Section 12.22 A.31 was added to create the TOC Affordable Housing Incentive Program (TOC Program). The Measure created TOC Guidelines to provide development incentives for all Housing Developments located within a one-half mile radius of a Major Transit Stop.

Because the Project Site is located within 750 feet of an intersection between two intersecting non-Rapid bus lines that each have at least 15-minute average peak headways, the Project Site qualifies for a Tier 2 Transit Oriented Communities (TOC) designation. However, the Project qualifies for one increase in the Tier designation to Tier 3 for constructing a 100 percent affordable housing development.

[2] *City of Los Angeles Department of City Planning, Zoning Information File No. 2452 (see Appendix A) and City of Los Angeles Department of City Planning, Zone Information and Map Access System, website: http://zimas.lacity.org/, accessed: August 2018.*

The Project requests the following Tier 3 Base and Additional Incentives under the TOC Program:

BASE INCENTIVES

- 45% increase in density
- 45% increase in FAR
- No required parking for all residential units

ADDITIONAL INCENTIVES

1. 30% decrease in the required width of the northerly side yard and rear yard setbacks
2. 25% decrease in the minimum usable open space required
3. 17.1% decrease in the minimum common open space required
4. Building height increase of up to 11 feet

Project Characteristics

Project Overview

The Project involves the demolition of the existing single-family residence located at 418 N. Firmin Street, and the construction of a seven-story, 64-unit, 100 percent Affordable Housing project with a maximum floor area of 51,299 square feet and a maximum FAR of 4.35:1. The Project would be comprised of 45 PSH units restricted to Extremely Low Income Households, 19 Low Income units[3], and approximately 2,200 square feet of PSH supportive services areas including office, kitchen and community rooms. One of the 19 Low Income units would be designated as a manager's unit. PSH housing is provided for persons with extremely low incomes[4] who have one or more disabilities and may include adults, families with children, elderly persons, young adults and homeless people. The supportive services that are provided to the residents on a voluntary basis include, but are not limited to, a combination of case management, medical and health care, substance abuse treatment, employment services, benefits advocacy and other services necessary to obtain and maintain housing. The maximum height of the Project would not exceed 86 feet in seven stories, as measured from the lowest finished grade adjacent to

[3] *Low Income units are available to individuals or families that earn between 50 and 80 percent of the adjusted median income (AMI) for the county of residence. Los Angeles Housing & Community Investment Department, 2018 Income and Rent Limit - Land Use Schedule VII, Effective Date: June 1, 2018.*

[4] *Extremely Low Income units are available to individuals or families that earn between zero (0) and 30 percent of the AMI for the county of residence. Los Angeles Housing & Community Investment Department, 2018 Income and Rent Limit - Land Use Schedule VII, Effective Date: June 1, 2018.*

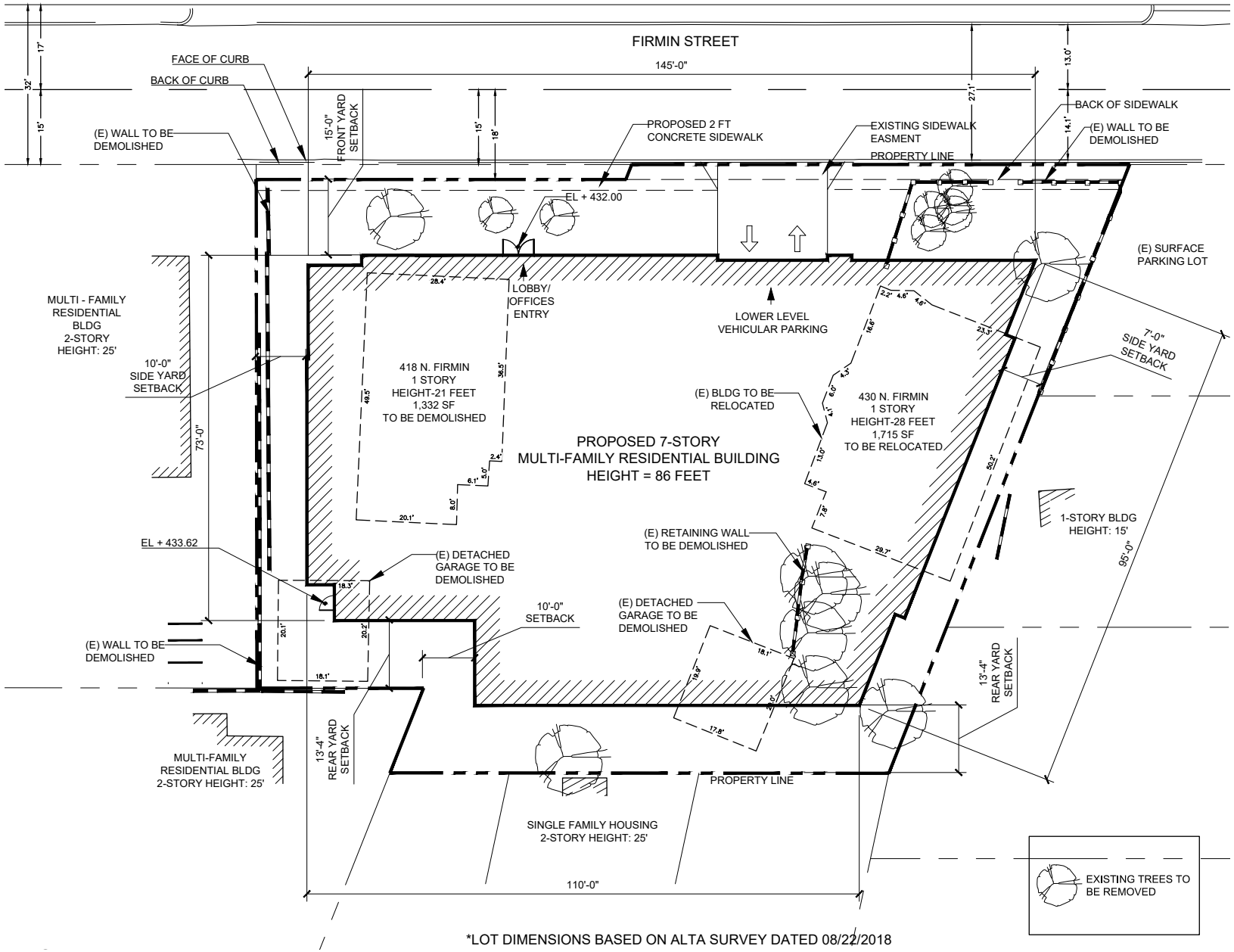
the proposed Project building to the roof ridge. Parking for the Project would be provided on the first floor with a total of 10 parking spaces. The Project would also provide a total of 51 long-term bicycle parking spaces and five short-term bicycle parking spaces.

Table 2-1, Project Development Summary, provides a summary of the Project. The Project's plans are shown on Figures 2-7 through 2-16.

Table 2-1
Project Development Summary

Land Use	Quantity
Residential Units	
Studio	28
1-Bedroom	17
2-Bedroom	15
3-Bedroom	4
Total Units	**64**
Supportive Housing Services Area	**2,200 sf**
Parking Spaces	
Total Vehicle Parking Stalls for Residential	9
Total Vehicle Parking Stalls for Managers Unit	1
Total Vehicle Parking Stalls	**10**
Total Long Term Bicycle Parking Spaces	51
Total Short Term Bicycle Parking Spaces	5
Total Bicycle Parking Spaces	**56**
Open Space (sf)	
2nd Level Community Room	600
3rd Level Community Room	726
3rd Level Podium Level Courtyard	2,291
7th Level Skydeck	528
50% Front Yard Setback	1,162
Total Open Space (sf)	**5,307 sf**

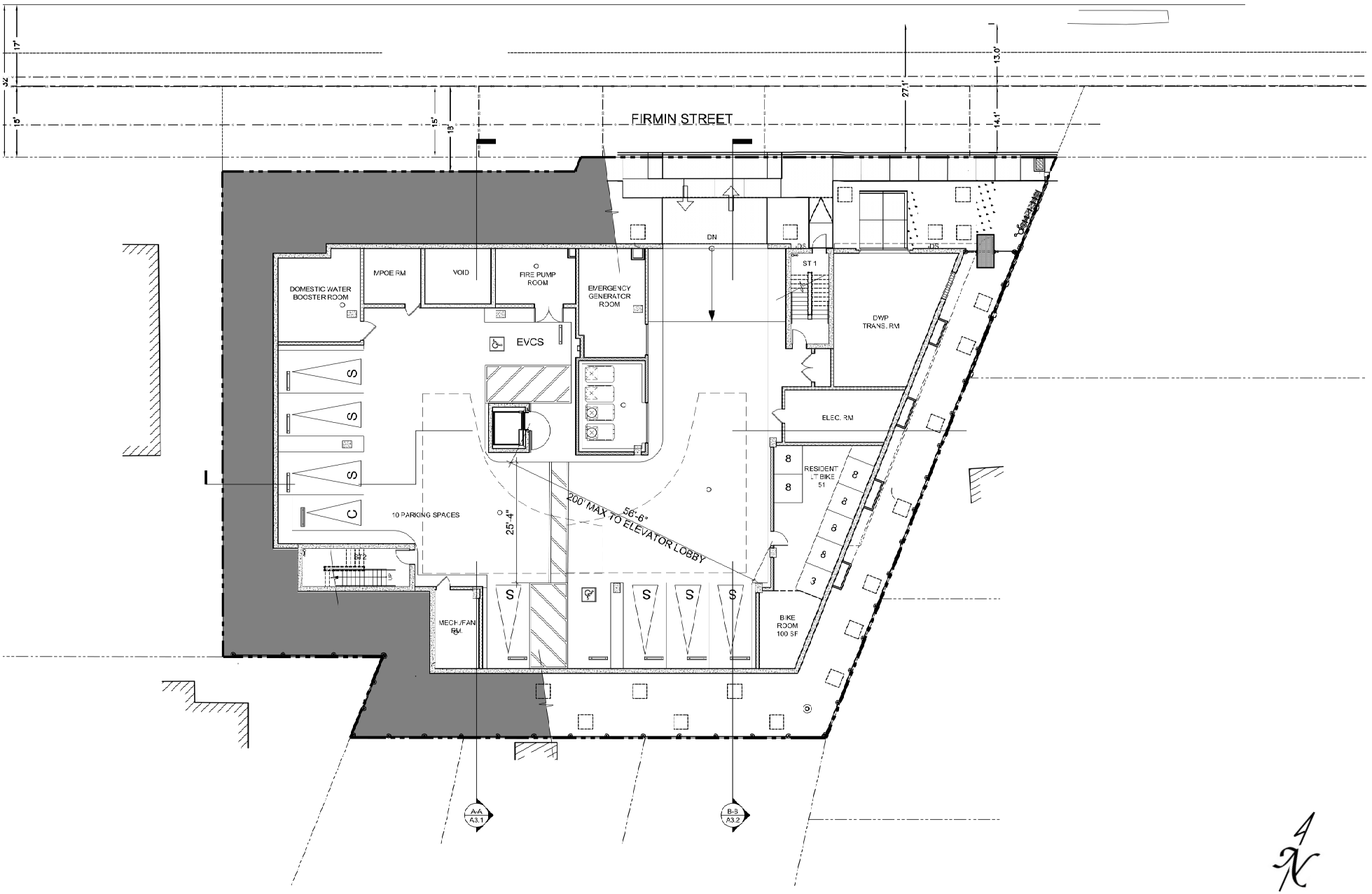
sf = square feet
Source: Dahlin Group, June 2018.



Source: The Decro Group, May 2019.

EcoTierra consulting

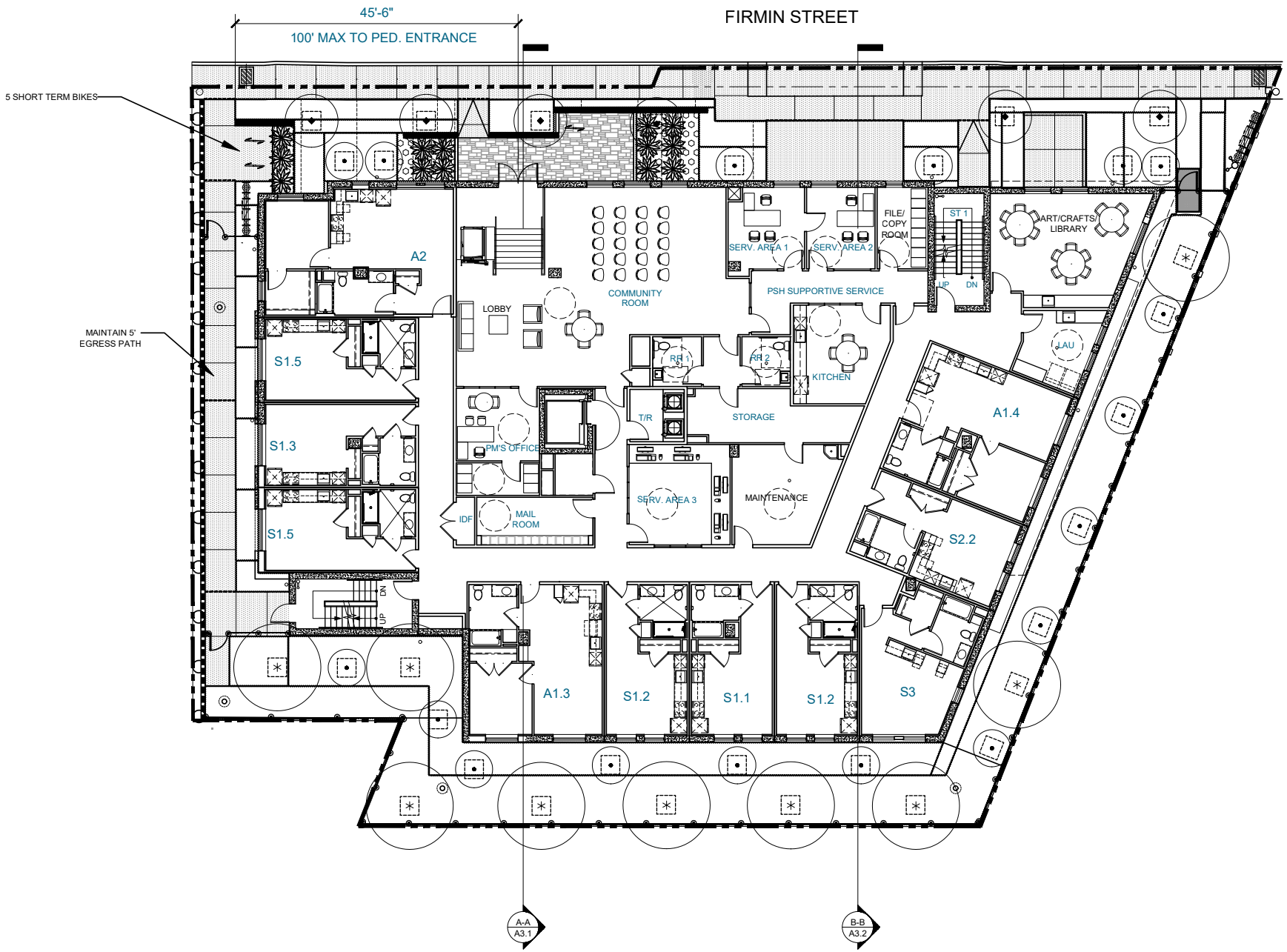
Figure 2-7
Plot Plan



Source: The Decro Group, May 2019.

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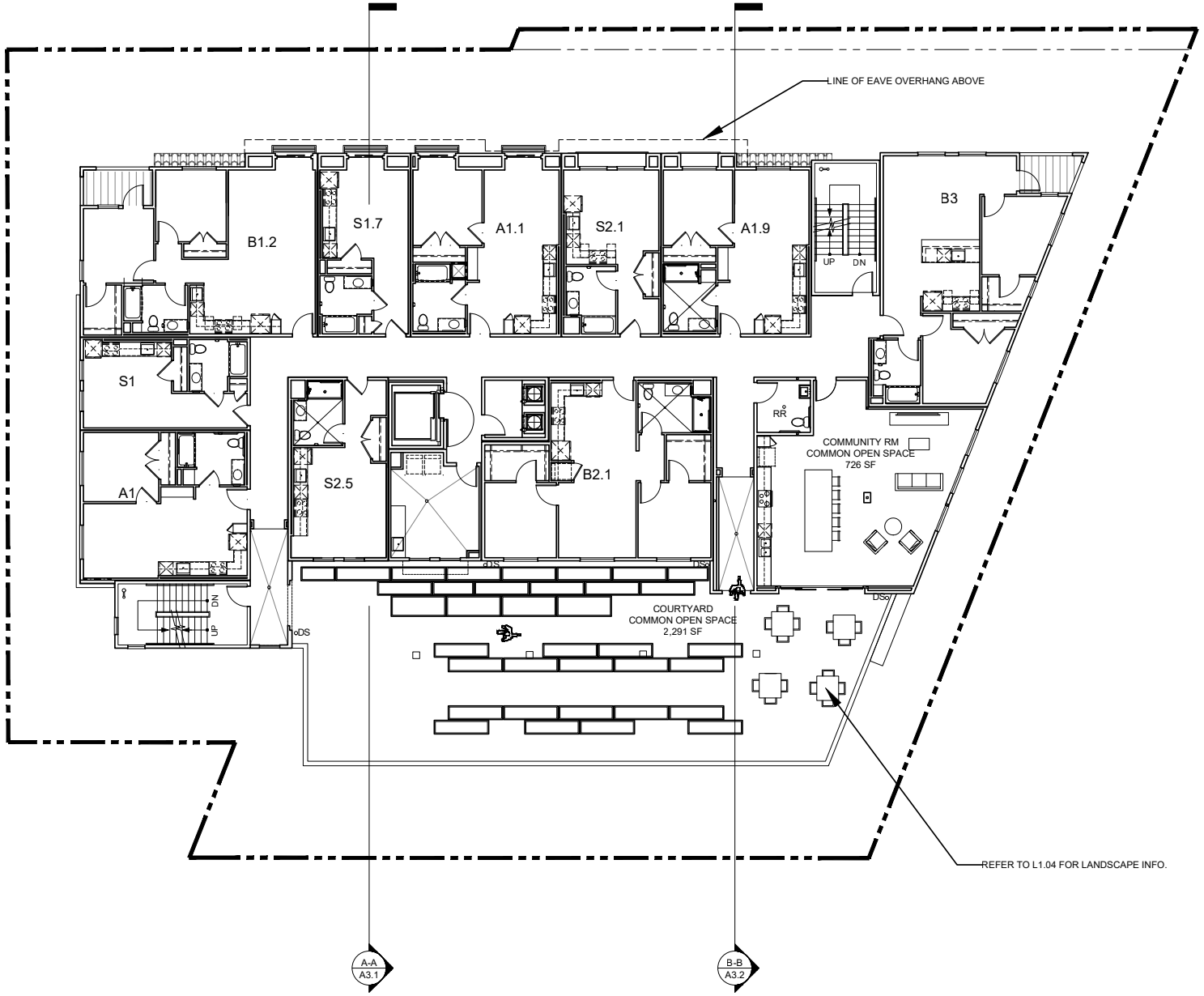
Figure 2-8
1st Floor Plan (Lower Ground Floor)



Source: The Decro Group, May 2019.

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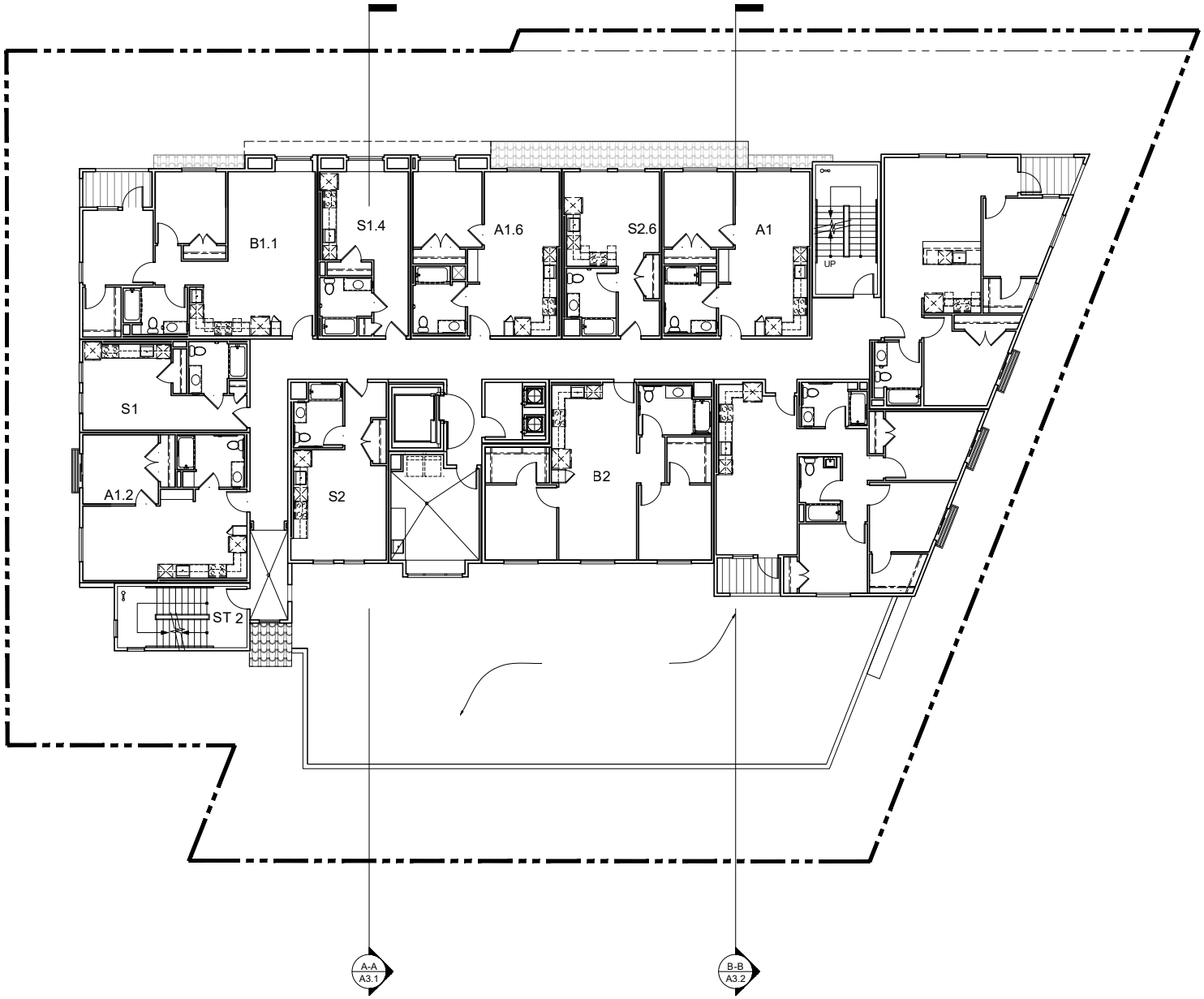
Figure 2-9
2nd Floor Plan (Upper Ground Floor)



Source: The Decro Group, May 2019.

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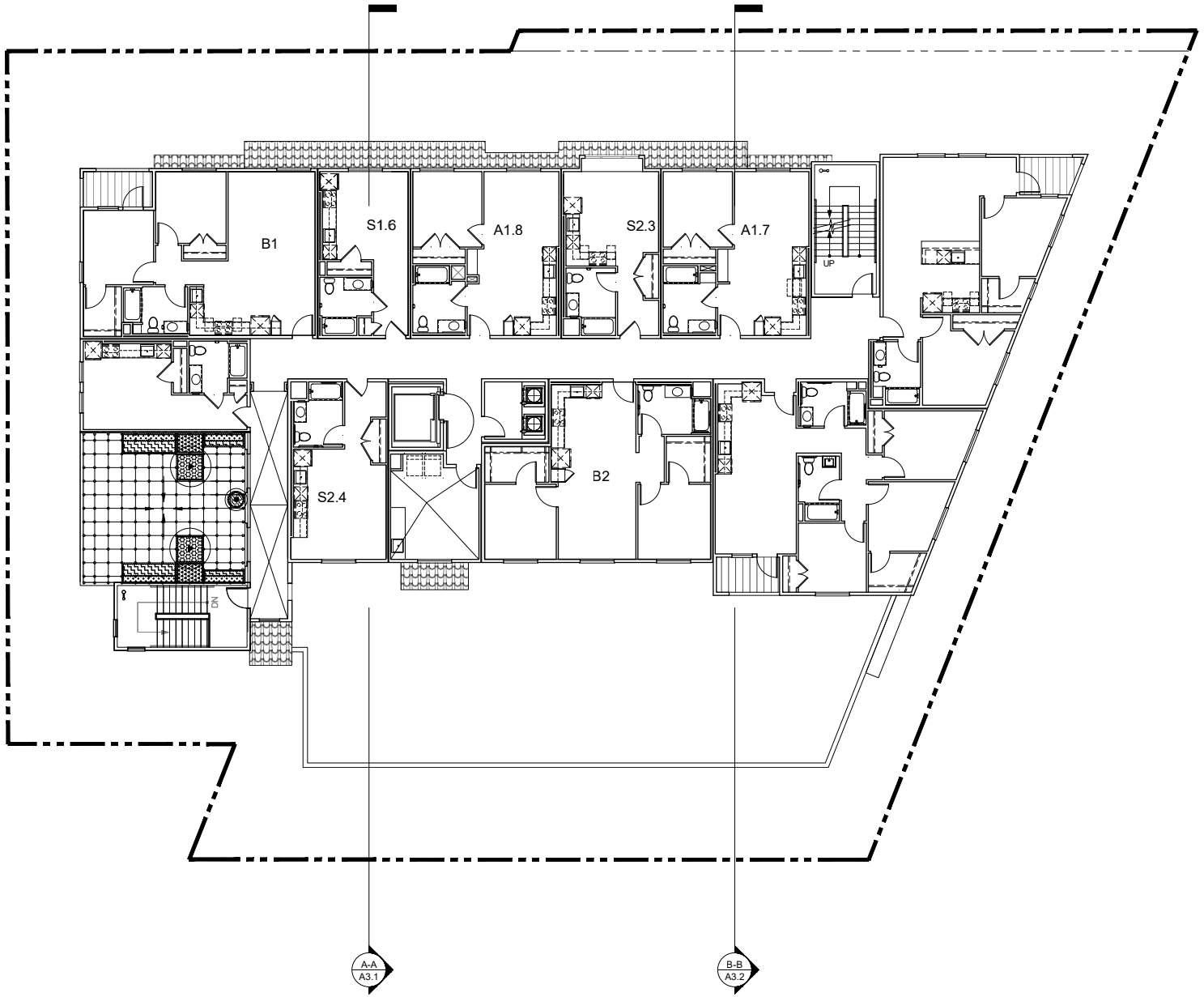
Figure 2-10
3rd Floor Plan (Podium)



Source: The Decro Group, May 2019.

EcoTierra consulting

Figure 2-11
4th Floor Plan (5th & 6th Floors Similar)



Source: The Decro Group, May 2019.

EcoTierra consulting

Figure 2-12
7th Floor Plan



Source: The Decro Group, May 2019.



Source: The Decro Group, May 2019.

EcoTierra consulting

Figure 2-14
North Elevation



Source: The Decro Group, May 2019.

EcoTierra consulting

Figure 2-15
East Elevation (Rear Elevation)



Source: The Decro Group, May 2019.

EcoTierra consulting

Figure 2-16
South Elevation

Table 2-2 summarizes the Project parameters, including the Tier 3 TOC allowances, compared to the requirements of the Planning and Zoning Code:

Table 2-2
Zoning and TOC Summary

PROJECT DETAIL	USE	REQUIRED/ALLOWED ZONE: R4(CW)-75/3 LOT AREA: 17,330 SF BUILDABLE AREA: 11,793 SF	PROPOSED (WITH TOC TIER 3 INCENTIVES)
Floor Area	---	**3:1 FAR** 35,379 square feet TOC Tier 3 Base Incentive Section VI.1.b.iii	**4.35 FAR** 51,299 square feet (Tier 3 – Up to 45% increase)
Residential Density	---	**44 Units** (R4 / 400 SF) TOC Tier 3 Base Incentive Section VI.1.a.iii	**64 Units** **(+45%)** (Tier 3 – Up to 70% Density Bonus)
Auto Parking	Residential – Affordable Units	0 spaces TOC Tier 3 Base Incentive Section VI.2.a.i.2.	9 spaces Residential / Guest
	Residential Manager's Unit (2-Bedrooms)	0 spaces TOC Tier 3 Base Incentive Section VI.2.a.i.2	1 space
	Total	**0 space**	**10 spaces**
***Bicycle Parking** Ordinance 185,480 Effective May 9, 2018	Residential	51 – Long Term 5 – Short Term **56 Total**	51 – Long Term 5 – Short Term **56 Total**
Open Space	---	7,075 square feet (minimum) LAMC Section 12.21.G TOC Tier 3, Additional Incentive, Section VII.1.b.ii	5,307 square feet (Tier 3 – 25% reduction)
	Total	**7,075 square feet**	**5,307 square feet**
Building Height		86 feet TOC Tier 3, Additional Incentive Section VII.1.g.i	max. 86 feet 7 stories (Tier 3 – 11-foot increase)

Design and Architecture

In accordance with the Community Plan, the CCWSP, and Citywide Design Guidelines, the proposed building provides a variety of architectural materials and building planes. This mid-rise building would front on Firmin Street and is designed with varied massing and setbacks to articulate the building so that the façade is not a flat surface. Additionally, the Project includes windows and balconies along the street facing elevation to further

orient the building to the street. The design of the proposed building alternates different textures, colors, materials, and distinctive architectural treatments to add visual interest and to avoid repetitive facades.

Open Space and Landscaping

The distribution of open space throughout the Project Site at various orientations, scales, and levels is intended to create opportunities for a wider variety of activities and allow each space to be shared by residents for community engagement and interaction. The residential building would include community rooms on the 2nd and 3rd floors, a 3rd level podium courtyard, and a 7th level skydeck. These gathering areas would provide opportunities for residents to gather and/or participate in PSH activities and meetings.

Based on the proposed Project of 64 residential affordable apartment including 28 studios, 17 one-bedroom apartments, 15 two-bedroom apartments, and 4 three-bedroom apartments, the Project is required to provide 7,075 square feet of open space pursuant to LAMC Section 12.21 G.2 and the CCWSP. The TOC Additional Incentive to decrease the open space requirement by 25 percent allows for a reduction to 5,307 square feet of total open space. The Project would include a total of approximately 5,307 square feet of landscaping and open space (see Table 2-1, above). The proposed landscaping plan would provide a mix of ground cover and trees along the perimeter of the Project Site. Plant material have been selected for temperature hardiness and low water use (see Figures 2-17 through 2-19 for landscaping plans).

As part of the Project, four existing non-protected trees on-site would be removed and approximately 64 trees would be planted. Of the proposed new 64 trees, 35 would be provided on-site and 29 would be provided off-site at locations within the CCWSP area or at locations within the Community Plan area.



LEGEND

SYMBOL	DESCRIPTION
1	CITY SIDEWALK, COLOR NATURAL GRAY, WITH 2 FT ADDITION TO EXISTING WALK
2	3:1 LANDSCAPE SLOPE
3	CONCRETE SEATING BENCH TO MATCH PODIUM LEVEL BENCH
4	DROUGHT TOLERANT LANDSCAPE IN SIDE YARD SEE PLANT PALETTE PHOTOS SALVIA BEE'S BLISS, SALVIA GREGGII AUTUMN SAGE, SENECIO MANDRALISCAE, WESTRINGA FRUITICOSA,
5	TALL VERTICAL TREE, CUPRESSUS SEMPERVIRENS, ITALIAN CYPRESS OR EQUAL, SEE PLANT PALETTE PHOTOS
6	MEDIUM SIZED CANOPY TREE, CERCIDIUM X 'DESERT MUSEUM', DESERT MUSEUM PALO VERDEOR EQUAL, SEE PLANT PALETTE PHOTOS
7	BUILDING ENTRY FROM STREET WITH ACCENT PAVING
8	4 SHORT TERM BICYCLE PARKING RACKS WITHIN 100 FEET OF ENTRY. 1 SHORT TERM BICYCLE PARKING RACKS WITHIN 100 FEET OF ENTRY.
9	5 FOOT WIDE EGRESS WALKWAY
10	PERIMETER 5'-4" HIGH, WIRE MESH FENCE, SEE PHOTOS THIS SHEET, DETAIL AND ELEVATIONS
11	POWER POLE
12	5-6FT HIGH PERIMETER FENCING, STEP FENCING DOWN SLOPE, WIRE MESH FENCE, MFG AMETCO, MODEL- GUARDIAN MESH FENCE SEE ELEVATIONS AND PHOTOS THIS SHEET.
13	EXISTING PERIMETER FENCING AND PILASTERS TO REMAIN
14	NEW 5FT HIGH SHOTCRETE RETAINING/SHORING WALL WITH NEIGHBOR'S WOOD FENCE BEHIND WALL
15	ENTRY WALLS, FINISH TO MATCH STUCCO BUILDING, HEIGHTS RANGE FROM 18" -48" DUE TO STREET SLOPE. SEE PLAN FOR TOP OF WALL ELEVATIONS ABOVE FINISH GRADE
16	ENTRY DRIVEWAY
17	DROUGHT TOLERANT LANDSCAPE ALONG FIRMIN SEE PLANT PALETTE PHOTOS DIANELLA TAMANICA 'VARIEGATA, ANIGOZANTHUS FLAVIDUS, FURCREA FOETIDA MEDIOPICATA, MUHLENBERGIA CAPILLARIS REGAL MIST, SENECIO MANDRALISCAE, WESTRINGA FRUITICOSA
18	FRONTAGE LANDSCAPE WITH SMALL TREES UNDER POWER LINES, LAGERSTROEMIA INDICA, CRAPE MYRTLE OR EQUAL, SEE PLANT PALETTE PHOTOS
19	EXIT GATE WITH PANIC HARDWARE, 5 FT HIGH, WIRE MES, MFG AMETCO, MODEL- GUARDIAN MESH FENCE
20	LANDSCAPE MAINTENANCE ACCESS GATE, TO BE LOCKED

Source: The Decro Group, May 2019.

EcoTierra consulting

Figure 2-17
1st and 2nd Floor Landscape Plan



LEGEND

SYMBOL	DESCRIPTION
1	CAST IN PLACE CONCRETE PAVING, INTEGRAL COLOR, TOPCAST #5 AND SANDBLAST FINISHES
2	RAISED PREFABRICATED PLANTERS FOR DROUGHT TOLERANT LANDSCAPE, SEE PLANT PALETTE PHOTOS DROUGHT TOLERANT LANDSCAPE ON PODIUM SEE PLANT PALETTE PHOTOS. DIANELLA TAMANICA 'VARIEGATA, ANIGOZANTHUS FLAVIDUS, FURCREA FOETIDA MEDIOPICATA, MUHLENBERGIA CAPILLARIS REGAL MIST, SENECIO MANDRALISCAE, WESTRINGA FRUITICOSA FIBERGLASS PLANTER SIZES, 2 FT X 8FT X 2.5 FT HIGH, 2FT X 6FT X 2.5 FT HIGH, 3FT X 8FT X 2.5 FT HIGH FOR ORNAMENTAL PLANTINGS, FIBERGLASS PLANTERS 2FT X 8 FT X 2FT HIGH FOR COMMUNITY GARDEN
3	PERIMETER LANDSCAPE SEE LEVEL 1+2 PLANS
4	TABLES, UMBRELLA AND SEATING
5	ACCESSIBLE TABLES, UMBRELLA AND SEATING
6	SAND BLAST FINISHED PAVING BANDS
7	BUILDING ENTRY FROM COURTYARD
8	RAISED PREFABRICATED PLANTERS FOR COMMUNITY GARDEN
9	PLAY AREA, POSSIBLE USES, TABLE TENNIS, HOPSCOTCH, YOGA OR TUMBLING MATS CHALK ART, CHALK BOARD, CORN HOLE BEAN BAG TOSS, ACCESSIBLE SAND TABLE

LANDSCAPE DATA FOR PODIUM LEVEL

290 SQUARE FEET OF DROUGHT TOLERANT LANDSCAPE FOR THIS LEVEL

2291 SQUARE FEET OF COMMON OPEN SPACE
LANDSCAPE AREA IS 574 SF, 432 SF OF ORNAMENTAL LANDSCAPE , 142 SF OF COMMUNITY GARDEN

NO TURF GRASS IS PROPOSED FOR THIS LEVEL

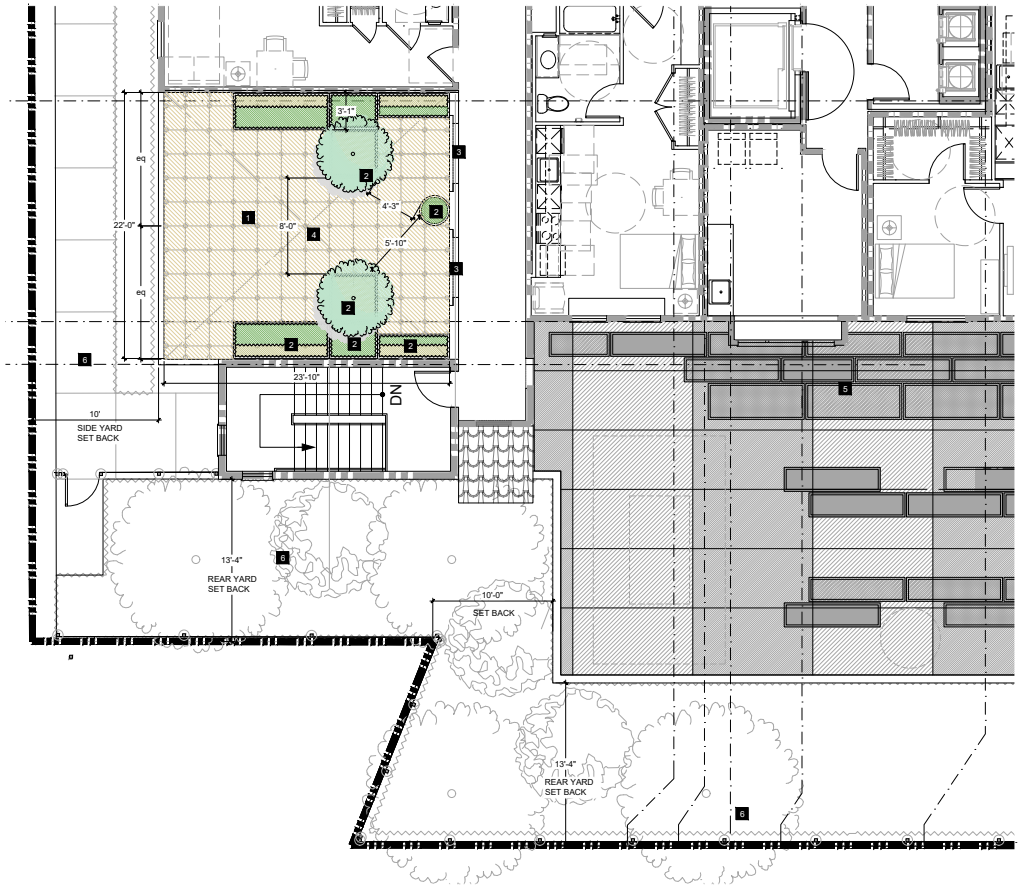
ALL LANDSCAPE AREAS SHALL BE IRRIGATED AND SHALL CONFORM TO ALL MWELO REQUIREMENTS.

LINEAR FIBERGLASS PLANTERS, VARYING WIDTHS AND HEIGHTS
LINEAR FIBERGLASS PLANTERS FINISHES

Source: The Decro Group, May 2019.

EcoTierra consulting

Figure 2-18
3rd Floor Landscape Plan



LEGEND

SYMBOL	DESCRIPTION
1	PEDESTAL PAVERS SIZE, 24 x 24
2	FIBERGLASS PLANTERS, WITH SMALL 24" BOX TREES SEE PLANTING PLAN FOR SIZES AND WEIGHTS
3	ACCESSIBLE PATH OF TRAVEL
4	SUB PAVING DRAIN SEE PLUMBING PLANS
5	PODIUM COURTYARD LEVEL BELOW
6	PERIMETER LANDSCAPE LEVEL BELOW

LANDSCAPE DATA FOR SKY DECK LEVEL

60 SQUARE FEET OF DROUGHT TOLERANT LANDSCAPE FOR THIS LEVEL

527 SQUARE FEET OF COMMON OPEN SPACE

NO TURF GRASS IS PROPOSED FOR THIS LEVEL

ALL LANDSCAPE AREAS SHALL BE AUTOMATICALLY IRRIGATED WITH DRIP IRRIGATION AND SHALL CONFORM TO ALL MWELO REQUIREMENTS.

TOTAL PROPOSED TREES FOR SKYDECK
2-24" BOX - ARBUTUS MARINA, MARINA STRAWBERRY TREE

Source: The Decro Group, May 2019.

EcoTierra consulting

Figure 2-19
7th Floor (Sky Deck) Landscape Plan

Access, Circulation, and Parking

North Firmin Street is designated a Local Limited Street per the Mobility Plan 2035 street standards, as this portion of North Firmin Street is a dead-end street. The Mobility Plan 2035 requires a 50-foot full Public Right-of-Way ("PROW") consisting of a 30-foot roadway and 10-foot sidewalks, and a 25-foot half-width PROW consisting of a 15-foot roadway and 10-foot sidewalk for designated Local Limited Streets. The existing half-width PROW of Firmin Street facing the subject site measures 18 feet, consisting of a 15-foot half-roadway and three-foot sidewalk. The applicant requests a Waiver of Dedication and Improvement to waive the seven-foot dedication requirement and sidewalk improvement to complete a 25-foot half-width PROW and create a 10-foot sidewalk along Firmin Street adjoining the subject site. However, per the Bureau of Engineering letter dated May 13, 2019 (see Appendix B to this document), the Project is not subject to any dedication and improvement per LAMC Section 12.37 A, as the subject site neither abut a major or secondary highway or collector street nor is considered to be a corner lot or an L-shaped interior lot abutting a major or secondary highway and a local street which intersect.

Pedestrian access to the residential lobby would be from Firmin Street. Vehicular access to the Project Site would be provided via one driveway along the east side of Firmin Street. The driveway would accommodate full vehicular access (i.e., left-turn and right-turn ingress and egress turning movements) to the on-site parking garage. All existing Project Site driveways located on Firmin Street would be closed and removed as part of the Project.

Zero vehicular parking spaces are required per the TOC Guidelines for Tier 3. A total of 10 vehicle parking spaces would be provided on-site. Nine parking spaces would be provided for the residential uses and one parking space would be provided for the manager's unit.

The Project would include five short-term and 51 long-term bicycle parking spaces in compliance with LAMC Section 12.21 A.16. Long-term bicycle parking spaces would be provided in the lower level of the on-site parking garage while short-term bicycle spaces would be provided on the ground floor along the westerly property line off of Firmin Street.

Lighting and Signage

The Project would provide illumination at street level for security. All lighting on the upper levels would be shielded and focused on the Project Site and directed away from the neighboring land uses. The Project would include architectural features and facades with a low level of reflectivity. Project signage would be provided for wayfinding in compliance with the LAMC.

Operation/Security

The Project would operate 24 hours per day. The Project would provide security features including, but not limited to, security cameras and lighting, card key access system, and restricted access from the lobby to the residential units. The Project would include one on-site property manager who would live on the property and would work 40 hours per week during standard business hours and on call during other hours. Up to three case workers would be on-site 40 hours per week during business hours and available to residents at other times as needed.

Sustainability Features

The proposed building would meet and/or exceed all City Building Code and Title 24 requirements. As such, the building would incorporate eco-friendly building materials, systems, and features wherever feasible, including Energy Star®-rated appliances, water saving/low-flow fixtures, non-volatile organic compound paints/adhesives, drought-tolerant planting, and high-performance building envelopment. The Project would also include one electric vehicle-charging station and 1,000 square feet of solar area on the roof.

Requested Permits and Approvals

The list below includes the anticipated permits and approvals required for the Project. The discretionary entitlements, reviews, permits, and approvals, and ministerial reviews, permits and approvals required to implement the Project include, but are not necessarily limited to, the following:

- Pursuant to LAMC Section 11.5.7 C and CCWSP Section 17.A.1, a Project Permit Compliance Review, which substitutes for the requirements of LAMC 16.05 and 12.24 U.14;

- Pursuant to LAMC Section 12.22 A.31, a Transit Oriented Communities Affordable Housing Incentive Program Review (the "TOC Guidelines") to utilize all three Base Incentives and four Additional Incentives to construct a 100 percent Affordable Housing Development with a total of 64 residential dwelling units consisting of 45 PSH units restricted to Extremely Low Income Households and 19 units restricted to Low Income Households. The Project's location within one-half mile radius of a Major Transit Stop and 100 percent Affordable development qualifies it for TOC Guidelines Tier 3 Incentives as follows:

    - Base Incentives:

        - Section VI.1.a.iii – 45 percent increase in density;

        - Section VI.1.b.v – 45 percent increase in FAR; and
        - Section VI.2.a.i.2 – No required parking; and
    - Additional Incentives:
        - Section VII.1.a.ii.2.c – 30 percent decrease in the required width of the northerly side yard and rear yard setbacks;
        - Section VII.1.b.ii – 25 percent decrease in the minimum usable open space [LAMC 12.22.A.25(f)(6)];
        - Section VII.1.b.ii – 17.1 percent decrease in the minimum common open space [CCWSP, Section 8.D.2.(a) and Appendix D, Section C.1.(a)]; and
        - Section VII.1.g.i.3 and VII.1.g.i.a – Building height increase up to 11 feet.

- Haul Route to export more than 1,000 cubic yards of earth material in a designated BOE Special Grading Area;
- Demolition, grading, excavation, and building permits; and
- Other permits, ministerial or discretionary, as may be necessary pursuant to various sections of the LAMC from the City of Los Angeles Department of City Planning, Department of Building and Safety and the Los Angeles Fire Department (and other municipal agencies) in order to execute and implement the Project. Such approvals may include, but are not limited to, landscaping plan approvals, stormwater discharge permits, permits for temporary street closures, installation and hookup approvals for public utilities, haul route approvals, and related permits.

Findings Supporting a Statutory Exemption Pursuant to CEQA Guidelines Sections 15192 and 15194

3. Statutory Exemption Analysis

Exemption Class

The Project qualifies for an Affordable Housing Exemption under the California Environmental Quality Act (CEQA) as set forth in Section 15194 of the *State CEQA Guidelines* and meets the threshold requirements set forth in Section 15192 of the *State CEQA Guidelines*.

Exemption Rationale

Article 12.5, Exemptions for Agricultural Housing, Affordable Housing, and Residential Infill Projects, of the *State CEQA Guidelines* (Sections 15191 – 15196) defines and describes projects which are statutorily exempt from the provisions of CEQA as required by Sections 21083 and 21159.23 of the Public Resources Code. This section provides an analysis demonstrating that the Project meets the threshold criteria for an Affordable Housing Exemption as defined by Sections 15192 and 15194 of the *State CEQA Guidelines*. The statutory language of each threshold criteria of the Affordable Housing Exemption is shown in italics below under their respective headings, which are followed by the Project analysis for each threshold criteria.

Threshold Requirements for Exemptions for Affordable Housing

[State CEQA Guidelines Section] 15192. Threshold Requirements for Exemptions for Agricultural Housing, Affordable Housing, and Residential Infill Projects

In order to qualify for an exemption set forth in sections 15193, 15194 or 15195, a housing project must meet all of the threshold criteria set forth below.

(a) The project must be consistent with:

> *(1) Any applicable general plan, specific plan, or local coastal program, including any mitigation measures required by such plan or program, as that plan or program*

existed on the date that the application for the project pursuant to Section 65943 of the Government Code was deemed complete; and

(2) Any applicable zoning ordinance, as that zoning ordinance existed on the date that the application for the project pursuant to Section 65943 of the Government Code was deemed complete, unless the zoning of project property is inconsistent with the general plan because the project property has not been rezoned to conform to the general plan.

(b) Community-level environmental review has been adopted or certified.

(c) The project and other projects approved prior to the approval of the project can be adequately served by existing utilities, and the project applicant has paid, or has committed to pay, all applicable in-lieu or development fees.

(d) The site of the project:

(1) Does not contain wetlands, as defined in Section 328.3 of Title 33 of the Code of Federal Regulations.

(2) Does not have any value as an ecological community upon which wild animals, birds, plants, fish, amphibians, and invertebrates depend for their conservation and protection.

(3) Does not harm any species protected by the federal Endangered Species Act of 1973 (16 U.S.C. Sec. 1531 et seq.) or by the Native Plant Protection Act (Chapter 10 (commencing with Section 1900) of Division 2 of the Fish and Game Code), the California Endangered Species Act (Chapter 1.5 (commencing with Section 2050) of Division 3 of the Fish and Game Code.

(4) Does not cause the destruction or removal of any species protected by a local ordinance in effect at the time the application for the project was deemed complete.

(e) The site of the project is not included on any list of facilities and sites compiled pursuant to Section 65962.5 of the Government Code.

(f) The site of the project is subject to a preliminary endangerment assessment prepared by a registered environmental assessor to determine the existence of any release of a hazardous substance on the site and to determine the potential for exposure of future occupants to significant health hazards from any nearby property or activity. In addition, the following steps have been taken in response to the results of this assessment:

(1) If a release of a hazardous substance is found to exist on the site, the release shall be removed, or any significant effects of the release shall be mitigated to a level of insignificance in compliance with state and federal requirements.

(2) If a potential for exposure to significant hazards from surrounding properties or activities is found to exist, the effects of the potential exposure shall be mitigated to a level of insignificance in compliance with state and federal requirements.

(g) The project does not have a significant effect on historical resources pursuant to Section 21084.1 of the Public Resources Code.

(h) The project site is not subject to wildland fire hazard, as determined by the Department of Forestry and Fire Protection, unless the applicable general plan or zoning ordinance contains provisions to mitigate the risk of a wildland fire hazard.

(i) The project site does not have an unusually high risk of fire or explosion from materials stored or used on nearby properties.

(j) The project site does not present a risk of a public health exposure at a level that would exceed the standards established by any state or federal agency.

(k) Either the project site is not within a delineated earthquake fault zone or a seismic hazard zone, as determined pursuant to Section 2622 and 2696 of the Public Resources Code respectively, or the applicable general plan or zoning ordinance contains provisions to mitigate the risk of an earthquake or seismic hazard.

(l) Either the project site does not present a landslide hazard, flood plain, flood way, or restriction zone, or the applicable general plan or zoning ordinance contains provisions to mitigate the risk of a landslide or flood.

(m) The project site is not located on developed open space.

(n) The project site is not located within the boundaries of a state conservancy.

(o) The project has not been divided into smaller projects to qualify for one or more of the exemptions set forth in sections 15193 to 15195.

[State CEQA Guidelines Section] 15194. Affordable Housing Exemption

CEQA does not apply to any development project that meets the following criteria:

(a) The project meets the threshold criteria set forth in section 15192.

(b) The project meets the following size criteria: the project site is not more than five acres in area.

(c) The project meets both of the following requirements regarding location:

(1) The project meets one of the following location requirements relating to population density:

(A) The project site is located within an urbanized area or within a census-defined place with a population density of at least 5,000 persons per square mile.

(B) If the project consists of 50 or fewer units, the project site is located within an incorporated city with a population density of at least 2,500 persons per square mile and a total population of at least 25,000 persons.

(C) The project is located within either an incorporated city or a census defined place with a population density of at least 1,000 persons per square mile and there is no reasonable possibility that the project would have a significant effect on the environment or the residents of the project due to unusual circumstances or due to the related or cumulative impacts of reasonably foreseeable projects in the vicinity of the project.

(2) The project meets one of the following site-specific location requirements:

(A) The project site has been previously developed for qualified urban uses; or

(B) The parcels immediately adjacent to the project site are developed with qualified urban uses.

(C) The project site has not been developed for urban uses and all of the following conditions are met:

1. No parcel within the site has been created within 10 years prior to the proposed development of the site.

2. At least 75 percent of the perimeter of the site adjoins parcels that are developed with qualified urban uses.

3. The existing remaining 25 percent of the perimeter of the site adjoins parcels that have previously been developed for qualified urban uses.

(d) The project meets both of the following requirements regarding provision of affordable housing.

(1) The project consists of the construction, conversion, or use of residential housing consisting of 100 or fewer units that are affordable to low-income households.

(2) The developer of the project provides sufficient legal commitments to the appropriate local agency to ensure the continued availability and use of the housing units for lower income households for a period of at least 30 years, at monthly housing costs deemed to be "affordable rent" for lower income, very low

income, and extremely low income households, as determined pursuant to Section 50053 of the Health and Safety Code.

Project Analysis

Threshold Criteria 15192 (a): The project must be consistent with:

(1) Any applicable general plan, specific plan, or local coastal program, including any mitigation measures required by such plan or program, as that plan or program existed on the date that the application for the project pursuant to Section 65943 of the Government Code was deemed complete; and

(2) Any applicable zoning ordinance, as that zoning ordinance existed on the date that the application for the project pursuant to Section 65943 of the Government Code was deemed complete, unless the zoning of project property is inconsistent with the general plan because the project property has not been rezoned to conform to the general plan.

City of Los Angeles General Plan

The General Plan sets forth goals, objectives, and programs to provide a guideline for land use policies and to meet the existing and future needs and desires of the community, while integrating a range of state-mandated elements, including Land Use, Transportation, Noise, Safety, Housing, and Open Space/Conservation. The Land Use Element of the General Plan consists of the General Plan Framework Element, which addresses citywide policies, and also includes the 35 Community Plans that guide land use at a local level. Land uses on the Project Site are guided by the Westlake Community Plan, which designates the Project Site as High Medium Residential.

City of Los Angeles General Plan Framework Element

The consistency of the Project with applicable objectives and policies in the City's General Plan Framework Element is presented in Table 3-1, Project Consistency with the Applicable Objectives and Policies of the Framework Element.

Table 3-1
Project Consistency with the Applicable Objectives and Policies of the Framework Element

Objective/Policy	Project Consistency
Land Use Chapter	
Objective 3.1: Accommodate a diversity of uses that support the needs of the City's existing and future residents, businesses, and visitors.	**Consistent.** The Project would develop a 64-unit, 100 percent affordable housing project on a property currently developed with single-family land uses. The Project would be comprised of 45 PSH units restricted to Extremely Low Income

Table 3-1
Project Consistency with the Applicable Objectives and Policies of the Framework Element

Objective/Policy	Project Consistency
	Households, 19 Low Income units, and approximately 2,200 square feet of PSH supportive services areas (including office, kitchen and community rooms). The Project would contribute to the diversity of land uses in the area, which currently includes residential, commercial, and institutional (churches and school) land uses.
Policy 3.1.1: Identify areas on the Long-Range Land Use Diagram and in the community plans sufficient for the development of a diversity of uses that serve the needs of existing and future residents (housing, employment, retail, entertainment, cultural/institutional, educational, health, services, recreation, and similar uses), provide job opportunities, and support visitors and tourism.	**Consistent.** The Project Site is identified as a Regional Center on the Framework's Long-Range Land Use Diagram (Metro). The Framework is used as a guide and a generalized recommendation, while the Community Plan land use designation reflects more appropriate levels of development. The Project would maximize development of an underutilized site with a new residential use that would provide housing for persons with extremely low incomes who have one or more disabilities and may include adults, families with children, elderly persons, young adults and homeless people. The concentration of development would support the Project area's existing range of services and activities and would be consistent with the Regional Center designation.
Policy 3.1.4: Accommodate new development in accordance with land use and density provisions of the General Plan Framework Element Long-Range Land Use Diagram.	**Consistent.** The Project would be consistent with the Framework's Long-Range Land Use Diagram (Metro), which identifies the Project Site as a Regional Center. The Regional Center is an area targeted for high-density, and a focal point of regional commerce, identity, and activity. Encouraged uses include corporate and professional offices, residential, retail commercial malls, government buildings, major health facilities, major entertainment and cultural facilities and supporting services. The Framework is used as a guide and a generalized recommendation, while the Community Plan land use designation reflects more appropriate levels of development. The Project would provide a residential land use, consistent with the residential designation of the Community Plan.
Objective 3.2: To provide for the spatial distribution of development that promotes an improved quality of life by facilitating a reduction of vehicle trips, vehicle miles traveled, and air pollution.	**Consistent.** Metro provides local bus service in the Project Site area. Metro Bus Line 10 and DASH Bus Pico Union/Echo Park intersect at the corner of Temple Street and Edgeware Road. This intersection is located less than 750 feet from the

Table 3-1
Project Consistency with the Applicable Objectives and Policies of the Framework Element

Objective/Policy	Project Consistency
	Project Site. Metro Bus Line 10 runs east/west on West Temple Street and the DASH Bus Pico Union/Echo Park runs north/south on Edgeware Road. The Project would develop residential uses within walking distance of existing bus lines and would provide opportunities for residents, and visitors to use public transit for work trips, and walk to other retail businesses within and near the Project Site. The Project would also provide long-term and short-term bicycle parking. As such, the Project would support the reduction of vehicle trips, vehicle miles travelled, and air pollution.
Policy 3.2.3: Provide for the development of land use patterns that emphasize pedestrian/bicycle access and use in appropriate locations.	**Consistent.** The Project would be accessible to bicycles and bicycle parking would be provided in accordance with the LAMC. The Project Site is also within walking distance of other commercial uses in Westlake.
Objective 3.4: Encourage new multi-family residential, retail commercial, and office development in the City's neighborhood districts, community, regional, and downtown centers as well as along primary transit corridors/boulevards, while at the same time conserving existing neighborhoods and related districts.	**Consistent.** The Project would provide new development that is consistent with existing land uses in the Westlake community, which currently includes commercial, residential, and institutional land uses. The development of the Project within a Regional Center as well as close to a transit corridor served by the Metro bus service, and freeways supports the Framework's policies to encourage a mix of land uses along transit corridors. The Project Site is located one block south of Temple Street, which is a primary transit corridor. The Project would improve the existing residential neighborhood by maximizing development of an underutilized site with new land uses that would provide housing for persons with extremely low incomes who have one or more disabilities and may include adults, families with children, elderly persons, young adults and homeless people. The proposed residential use, consistent with the residential designation of the Community Plan and with the surrounding residential uses.
Objective 3.7: Provide for the stability and enhancement of multi-family residential neighborhoods and allow for growth in areas where there is sufficient public infrastructure and services and the residents' quality of life can be maintained or improved.	**Consistent.** The residential project would be comprised of 45 PSH units restricted to Extremely Low Income Households, 19 Low Income units, and approximately 2,200 square feet of PSH supportive services areas in the dense urban community of Westlake where sufficient public infrastructure (e.g., electricity, natural gas, sewer,

Table 3-1
Project Consistency with the Applicable Objectives and Policies of the Framework Element

Objective/Policy	Project Consistency
	water, and roadways) and services (e.g., fire and police protection, schools, and libraries) exist.
Policy 3.7.1: Accommodate the development of multi-family residential units in areas designated in the community plans in accordance with the Zoning Ordinance, with the density permitted for each parcel to be identified in the community plans.	**Consistent.** The Project Site is zoned CW "Central City West Specific Plan Zone," which indicates that the development regulations on the Project Site is established by the CCWSP Ordinance. The CCWSP identifies land use categories and height/floor area ratio districts that guide development on-site. The Project Site has a land use category and height/floor area ratio district of R4(CW)-75/3-O, which allows for R4 multi-family residential uses. The Project requests a Base Incentive under the TOC Guidelines to increase the maximum density to permit 64 units in lieu of 44 units as otherwise permitted. The residential project would be comprised of 45 PSH units restricted to Extremely Low Income Households, 19 Low Income units, and approximately 2,200 square feet of PSH supportive services areas. The low-income housing project would meet the density permitted for the Project Site through the approval of TOC incentive requests.
Policy 3.7.4: Improve the quality of new multi-family dwelling units based on the standards in Chapter 5 *Urban Form and Neighborhood Design* Chapter of this Element.	**Consistent.** The Project would be designed to meet the standards in Chapter 5 of the General Plan Framework Element. See applicable goals, objectives, and policies below.
Objective 3.10: Reinforce existing and encourage the development of new regional centers that accommodate a broad range of uses that serve, provide job opportunities, and are accessible to the region, are compatible with adjacent land uses, and are developed to enhance urban lifestyles.	**Consistent.** The Project would maximize the development potential on the Project Site by reinforcing and enhancing the existing Regional Center, which currently accommodates a broad range of land uses and job opportunities, and would continue to be, accessible to the region. The Project would be a residential land use that would provide multi-family housing for local residents and employees traveling. The Project would be compatible with adjacent land uses that include residential land uses. The concentration of development adjacent to several Metro bus lines would promote the use of public transit for residents and visitors to the Project Site. Furthermore, the Project has incorporated design features to encourage pedestrian activity, including landscaping and an attractive street frontage.

Table 3-1
Project Consistency with the Applicable Objectives and Policies of the Framework Element

Objective/Policy	Project Consistency
Urban Form and Neighborhood Design Chapter	
Objective 5.2: Encourage future development in centers and in nodes along corridors that are served by transit and are already functioning as centers for the surrounding neighborhoods, the community, or the region.	**Consistent.** The Project would develop a residential land use on a site that is served by Metro bus lines. Metro Bus Line 10 and DASH Bus Pico Union/Echo Park intersect at the corner of Temple Street and Edgeware Road. The Project would provide ample opportunities for residents and visitors to use public transit and to walk to other commercial uses near the Project Site.
Source: City of Los Angeles, The Citywide General Plan Framework Element, website: http://cityplanning.lacity.org/cwd/framwk/contents.htm, accessed: July 2018; EcoTierra Consulting, 2018.	

Therefore, the Project would be consistent with the applicable goals, objectives, and policies in the General Plan Framework Element.

Westlake Community Plan

The City's 35 Community Plans are intended to promote an arrangement of land uses, streets, and services, which would encourage and contribute to the economic, social, and physical health, safety, and welfare of the people who live and work in the community. The Community Plans are also intended to guide development in order to create a healthful and pleasing environment. The Community Plans coordinate development among the various communities of the City and adjacent municipalities in a fashion both beneficial and desirable to the residents of the community. The Westlake Community Plan guides land uses on the Project Site and in the surrounding areas. The current plan sets forth objectives to maintain the community's distinctive character.

The Project Site is designated for High Medium Residential land uses. Development of the Project would include the construction of a multi-family residential development consisting of 64 dwelling units. This type of development would be consistent with the High Medium Residential land use designation.[1] Therefore, the Project would be consistent with the General Plan Land Use Designation.

[1] *Pursuant to Council File #87-0168-S2, dated December 18, 1990, the City Council adopted a PLUM Report which instruct the City Planning Department to amend the Westlake Community Plan by changing the land use designation on the Subarea 470 lots R3 (CW) properties medium density housing to high medium density housing, and the Subarea 740 RC3 (CW) properties from medium/limited commercial to high medium limited commercial. Note that by 1992, the CCWSP amendment rezoned the Firmin site to R4.*

The consistency of the Project with applicable policies in the Community Plan is presented in Table 3-2, Project Consistency with Applicable Residential and Circulation Objectives and Policies of the Westlake Community Plan.

Table 3-2
Project Consistency with Applicable Residential and Circulation Objectives and Policies of the Westlake Community Plan

Policies	Project Consistency
Residential Objective 1: To designate a supply of residential land adequate to provide housing of the types, sizes, and densities required to satisfy the varying needs and desires of all segments of the community's population.	**Consistent.** The Project would provide housing for persons with very low incomes who have one or more disabilities and may include adults, families with children, elderly persons, young adults and homeless people. Currently, the City is underserved by affordable housing and supportive housing and services; the Project would designate a type of housing currently needed to serve an underserved segment of the population.
Residential Objective 2: To conserve and improve existing viable housing for persons desiring to live in Westlake, especially low and moderate income families.	**Consistent.** The residential project would be comprised of 45 PSH units restricted to Extremely Low Income Households, 19 Low Income units, and approximately 2,200 square feet of PSH supportive services areas in the dense urban community of Westlake. This new residential land use would provide affordable housing opportunities to the Westlake community.
Residential Objective 3: To sequence housing development so as to provide a workable, efficient, and adequate balance between land use, circulation, and service system facilities at all times.	**Consistent.** The Project would provide new residential land uses in the Westlake community, which currently includes commercial, residential, and institutional land uses. The Project Site is close to a transit corridor served by the Metro bus service, and freeways. The Project Site is located one block south of Temple Street, which is a primary transit corridor.
Residential Policy 2: That medium density housing be located near commercial corridors where access to public transportation and shopping services is convenient and where a buffer from or a transition between low density housing can be achieved.	**Consistent.** Metro provides local bus service in the Project Site area. Metro Bus Line 10 and DASH Bus Pico Union/Echo Park intersect at the corner of Temple Street and Edgeware Road. This intersection is located less than 750 feet from the Project Site. Metro Bus Line 10 runs east/west on West Temple Street and the DASH Bus Pico Union/Echo Park runs north/south on Edgeware Road. The Project would develop a high medium density residential use within walking distance of existing bus lines and would provide opportunities for residents, and visitors to use public transit for work trips, and walk to other retail businesses within and near the Project Site.

Table 3-2
Project Consistency with Applicable Residential and Circulation Objectives and Policies of the Westlake Community Plan

Policies	Project Consistency
Residential Policy 5: That the City shall discourage the demolition of affordable housing unless there is adequate assurance that suitable equivalent replacement units will be made available.	**Consistent.** The Project would improve the existing residential neighborhood by maximizing development of an underutilized site with new land uses that would provide housing for persons with very low incomes who have one or more disabilities and may include adults, families with children, elderly persons, young adults and homeless people.
Circulation Objective 1: To maximize the effectiveness of public transportation to meet the travel needs of transit dependent residents.	**Consistent.** The Project would provide housing for persons with very low incomes who have one or more disabilities and may be reliant on public transit within proximity of transit.
Circulation Objective 3: To minimize the conflict between vehicular and pedestrian traffic.	**Consistent.** The Project would improve upon the existing sidewalk by widening the sidewalk by two feet. Vehicular access to the Project Site would be provided via one driveway along the east side of Firmin Street. The single driveway would accommodate full vehicular access (i.e., left-turn and right-turn ingress and egress turning movements) to the on-site parking garage, thus minimizing conflict between cars and pedestrians.
Circulation Policy 4: That public transportation, including rapid transit be accessible to transit dependent residents.	**Consistent.** Although the Project would not have a notable effect on the existing transit system, the Project would provide housing for persons with very low incomes who have one or more disabilities and may be reliant on public transit within proximity of transit. Metro Bus Line 10 and DASH Bus Pico Union/Echo Park intersect at the corner of Temple Street and Edgeware Road, less than 750 feet from the Project Site. The Project would develop designated affordable housing units within walking distance of existing bus lines and would provide opportunities for persons with very low incomes who have one or more disabilities and may include adults, families with children, elderly persons, young adults and homeless people housing within proximity to transit.
Source: City of Los Angeles, Westlake Community Plan, September 16, 1997; EcoTierra Consulting, 2018.	

Therefore, the Project would be consistent with the applicable policies in Westlake Community Plan.

Central City West Specific Plan Mitigation Measures

As stated in *State CEQA Guidelines* Section 15192, a Project must be consistent with any mitigation measures required by applicable general plan, specific plan, or local coastal program. All of the mitigation measures in the Central City West Specific Plan EIR and each mitigation measure's applicability to the Project is provided in Table 3-3, along with the Project's consistency with each measure.

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
A. LAND USE		
A.1. General Plan		
The Specific Plan would implement the General Plan provision calling for a Westlake Community Specific Plan to address the transportation and housing impacts of spillover development from the CBD proper.	None required.	None required. The Project is consistent with the General Plan, Housing Element Policies 1.1.2 (expand affordable rental housing for all income groups that need assistance) 1.1.4 (expanded opportunities for housing in transit oriented districts), 4.1.3 (provide permanent supportive housing option for services for homeless persons and families) and 4.1.6 (provide housing facilities and supportive services for the homeless and special needs population throughout the City). The Project proposes the construction of a 100% affordable housing development consisting of a total of 64 residential units with 45 PSH units restricted to Extremely Low Income Households and 19 Low Income units, and approximately 2,200 square feet of PSH supportive services areas (including office, kitchen and community rooms).

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
A.2. Specific Plan		
The Specific Plan would generally allow for greater development intensities than now exist, but reduced development intensities relative to current land use and zoning provisions. The Specific Plan would provide for growth from the existing 8 million square feet (MSF) of non-residential space in CCW to 25 MSF by the year 2010, and 35 MSF at buildout under the Specific Plan, compared to the existing Community Plan potential of 42 MSF at buildout.	The Specific Plan Ordinance should contain a procedure for monitoring and regulating the phasing of commercial land use development versus the construction of housing, achievement of transportation demand management objectives, and implementation of programmed transportation improvements to ensure Specific Plan success. The City should identify a party to be assigned authority to such monitoring and oversight.	Not Applicable. This is not project specific and cannot be implemented on a project-by-project basis. Moreover, this mitigation measure is not relevant to the Project as Public Resources Code Section 21099, enacted by Senate Bill 743, provides that "aesthetic and parking impacts of a residential, mixed-use residential, or employment center project on an infill site within a transit priority area shall not be considered significant impacts on the environment."
B. URBAN DESIGN		
B.1. Aesthetics & Views		
The Specific Plan would include urban design measures to ensure appropriate scale of buildings in terms of height, bulk and orientation; to provide for orderly design of driveways, building entrances, service delivery and trash collection; to enhance the area's focus on pedestrian circulation; to preserve significant historic resources; to enhance recreational amenities; and to improve the local streetscape.	Design of the aerial portions of the Glendale Transitway should include adjacent landscaping and structural texturing and articulation to reduce potential visual impacts. The Specific Plan Ordinance should include measures to reduce the potential for the narrow-walled canyon effect on CCW streets, through application of mandatory step-backs similar to those proposed for the residential transition zones of the Specific Plan. Alternatively, height contours appropriate to the area's	Not Applicable. The Project is not located on or near the Glendale Transitway. The Project would extend to a maximum height of up to 86 feet, as measured from the lowest grade on a Project Site to the roof ridge, with seven stories in conjunction with the Tier 3 TOC Incentive to increase the maximum allowable building height to 86 feet in lieu of 75 feet as otherwise permitted by the CCWSP. This mid-rise building would front on Firmin Street and is designed with varied massing and setbacks to articulate the building so that the façade is not a

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
	topography, would help avoid such impacts.	flat surface. Additionally, the Project includes windows and balconies along the street facing elevation to further orient the building to the street.
B.2. Artificial Light		
The project would provide for growth in Central City West, which would add potential new sources of light and glare to the existing residential environment. The Urban Design Element of the Specific Plan will require plant materials to reduce reflectivity of hardscape surfaces.	The Specific Plan Ordinance should contain regulations regarding the size, type, number and orientation of signs for uses in the Specific Plan area. Individual project lighting plans must be approved by Department of Building and Safety to ensure that lighting will not adversely affect neighboring residential property. Exterior glazing shall be PPG-S-20 glass or similar low-reflectivity product.	Section 8 of the Specific Plan regulates signage. Only wayfinding or address signage would be provided at the Project, in compliance with the Specific Plan. The Project is located in a well-lit area of the City where there are moderate to bright levels of ambient nighttime lighting, including street lighting, vehicle headlights, architectural and security lighting, and indoor building illumination (light emanating from structures which passes through windows). The Project would add new residential dwelling units that would include similar lighting effects as provided from the existing adjacent residential land uses. Night lighting for the Project would be provided to illuminate building vehicular and pedestrian entrances, signs, and for security. Lighting would be low-level and ground- and/or building-mounted fixtures. The exterior façade of the Project will consist of painted cement plaster with a sand finish, a painted steel trellis, bronze

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
		storefront doors, roof tiles, painted metal railings, and non-reflective materials. All window glazing would be a low-reflectivity product. LAMC Section 12.22.A.23(a)(5), which is a mandatory regulatory compliance measure, requires the following: *All public areas of the lot or lots not covered by a building shall have night lighting for safety and security. All other open exterior areas, such as walkways and trash areas, shall have low-level, security-type lighting. All exterior lighting shall be directed onto the lot or lots, and all flood lighting shall be designed to eliminate glare to adjoining properties. All parking areas shall have a minimum of ¾-foot-candle of flood lighting measured at the pavement.* In addition, building permits must be obtained from the Department of Building and Safety ("LADBS") for any proposed signs, and electrical permits must be obtained for signs illuminated by electrical lighting. Specific LAMC requirements and restrictions are dependent on signage type, design, construction, materials, and potential for hazard to traffic.

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
B.3. Shade and Shadow		
The Specific Plan would allow for mid-rise and high-rise structures which will increase the potential for shade and shadow impacts on existing sensitive residential and open space uses in the project area. Encouragement of mixed use development and dedication of open space within permitted Central City West projects increases the potential for such impacts. Specific Plan R3 and R4 transition zones would reduce potential shade and shadow impacts of commercial high-rises on residential uses.	Individual mid-rise and high-rise proposals must be evaluated for shade and shadow impacts on sensitive residential and open space uses both adjacent to and within the proposed project. The Site Plan Review Process should be directed to consider the potential for general shading within a locale in the proposed R5, C or M zones as an element of building and public space design.	Not Applicable. Section 8(A)(5) of the Central City West Specific Plan places shade and shadow restrictions on 'buildings or structures located on a lot in the R5(CW), RC5(CW), C2(CW), C4(CW) or CM(CW).' As the Project is zoned R4(CW), this restriction does not apply. Regardless, pursuant to Senate Bill (SB) 743 [Public Resources Code ("PRC") §21099(d)]: "Aesthetic and parking impacts of a residential, mixed-use residential, or employment center project on an infill site within a transit priority area (TPA) shall not be considered significant impacts on the environment." PRC Section 21099(a)(7) defines a TPA as an area within 0.5 mile of a major transit stop that is "existing or planned, if the planned stop is scheduled to be completed within the planning horizon included in a Transportation Improvement Program adopted pursuant to Section 450.216 or 450.322 of Title 23 of the Code of Federal Regulations." PRC Section 21064.3 defines a "major transit stop" as "a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods." PRC Section

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
		21099(a)(4) defines an "infill site" as "a lot located within an urban area that has been previously developed, or on a vacant site where at least 75 percent of the perimeter of the site adjoins, or is separated only by an improved public right-of-way from, parcels that are developed with qualified urban uses." The related City of Los Angeles Department of City Planning Zoning Information (ZI) File ZI No. 2452 provides further instruction concerning the definition of transit priority projects. Pursuant to ZI No. 2452, "visual resources, aesthetic character, shade and shadow, light and glare, and scenic vistas or any other aesthetic impact as defined in the City's CEQA Threshold Guide shall not be considered an impact for infill projects within TPAs pursuant to CEQA." The Project is a residential project located on an infill site within a TPA as defined by CEQA. The Project Site is identified as being within a TPA on the City-wide TPA map attached to ZI No. 2452.

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
C. JOBS AND HOUSING		
C.1. Housing and Population		
The Specific Plan would halt the demolition-without-replacement of existing housing in Central City West. The project would ensure that existing residents are provided with adequate affordable replacement housing. The overall impact of the Plan's Housing Element will be an increase of 7,700 housing units.	To ensure that replacement housing for dwelling units removed is produced in a timely manner, the Specific Plan Ordinance should require that such units be available for occupancy commensurate with issuance of a Certificate of Occupancy to the commercial development responsible for production of such housing.	The Project complies with Section 11(C)(2) of the Central City West Specific Plan-Housing, Residential and Mixed Use Projects. The Project removes two housing units from the market and replaces them with 64 housing units.
C.2. Housing Affordability		
The project would contribute needed housing in a wide variety of income categories in the project vicinity, including some 5,300 units of low and very-low income dwelling units.	None required.	None required. Nonetheless, the Project proposes the construction of a 100% affordable housing development consisting of a total of 64 residential units with 45 PSH units restricted to Extremely Low Income Households and 19 Low Income units, and approximately 2,200 square feet of PSH supportive services areas (including office, kitchen and community rooms).
C.3. Job-Housing Balance		
The project would contribute needed housing in a wide variety of income categories to the job-rich Central City Subregion, with a 178% increase in the	None required.	None required.

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
number of units in CCW. However, the project ratio of 6.6 jobs/dwelling unit alone will not result in achievement of year-2010 job-housing balance objectives for the greater Subregion.		
D. TRANSPORTATION AND CIRCULATION		
D.1. Traffic		
Development the Specific Plan land use entitlements by the year 2010 would result in 11,695 added pm-peak trips and 112,072 added daily trips, 107% and 140% increases over existing levels, respectively. Buildout of the plan would result in 20,467 added pm-peak and 185,088 added daily trips, 187% and 232% increases over existing.	Implement $100 million in street improvements (including ATSAC at 60 intersections, widenings, closures, and realignments), $150 million in freeway and ramp improvements, and $315 million in transit improvements (including a new Metro Rail Station, HOV Transitway, pedestrian improvements and TDM programs) in Central City West. Additional mitigation should be required to mitigate significant adverse impacts of the plan compared to without-plan future conditions, including (see DEIR Section IV.N.1 for complete descriptions): • Roadway and intersection improvements. • Freeway improvements. • Individual project-level intersection analyses. • Revised intersection impact significance thresholds to more equitably distribute	Not Applicable. This mitigation measure addresses a community-wide impact and is not project-specific.

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
	remaining roadway capacity and more evenly distribute mitigation requirements.	
D.1. Traffic (Continued)		
Development of the Specific Plan transportation improvements will require right-of-way dedication within and immediately adjacent to Central City West of some 11.2 acres (at some 65 study area parcels), with an approximate value of $60 million. Dedications would be required as a part of the development approval process, however, some locations (parcels or portions of parcels) may require condemnation to acquire needed right-of-way.	The Specific Plan Ordinance should require dedication of right-of-way before approval of permitted CCW developments.	Not applicable. The Project is not subject to a dedication requirement. Pursuant to LAMC Section 12.37, a project which is located on property zoned R-3 and which located on Local (limited) street would only be subject to a dedication requirement if the subject property is located on a corner lot that intersects with a major or secondary highway. The Property is zoned R-3 and is located mid-block on Firmin Avenue. Therefore, the Project is not subject to a dedication requirement.
D.2. Parking		
Development of the Specific Plan will require 42,500-45,000 parking spaces serving Central City West by the year 2010, of which 38,250 would be for single-occupant vehicles, 4,250 would be required for high-occupancy vehicles (HOV), and 2,500 could be optionally provided for HOVs.	The Specific Plan ordinance should provide for the periodic evaluation of TDM achievement and parking adequacy in and around the study area, including assessment of the need for measures to reduce spill-over parking impacts on residential neighborhoods.	This mitigation measure addresses a community-wide impact and is not project-specific. The Project is consistent with parking requirements as proscribed by the Los Angeles Municipal Code for affordable housing projects. Pursuant to LAMC Section 12.21A.16, the Project would provide a total of 56 bicycle parking spaces, consisting of 51 long-term spaces located in the garage and five short-term spaces located at the ground floor.

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
		In accordance with Tier 3 Transit Oriented Communities Incentives, no vehicular parking is required for all residential units. Nevertheless, to provide parking for residents and employees providing permanent supportive services, the Project would provide 10 automobile parking spaces. Moreover, this mitigation measure is not relevant to the Project as Public Resources Code Section 21099, enacted by Senate Bill 743, provides that "aesthetic and parking impacts of a residential, mixed-use residential, or employment center project on an infill site within a transit priority area shall not be considered significant impacts on the environment."
D.3. Access and Alternative Modes		
The Specific Plan would program $312 million in public transit infrastructure improvements, including development of a Wilshire & Bixel Metro Rail Station, a transit mall connecting the Harbor Transitway with a new aerial connection to the north via Glendale Boulevard, four shuttle buses to supplement the DASH system shuttles, and purchase of 291 buses. Development of demand necessary to support this transit system is in part dependent on an aggressive transportation demand management	None required.	None required.

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
(TDM) program geared specifically to the needs and opportunities of CCW.		
E. AIR		
E.1. Air Quality: Mobile		
Development of Specific Phan entitlements by the year 2010 would contribute to a 0.34% increase in mobile-source emissions over future without-project conditions due to increased vehicle-miles traveled, but would yield a decline relative to present levels due to a cleaner vehicle fleet mix.	Transportation demand management measures proposed with regard to traffic impacts are needed to additionally mitigate mobile-source air impacts. Trip-reduction measures (carpooling, transit, alternative work weeks) should be emphasized over measures intended to shift trips out of the peak period.	This is a TOC Affordable Housing Project located in a Transit Priority Area, within one-half mile for a major transit stop. Metro Bus Line 10 and DASH Bus Pico Union/Echo Park intersect at the corner of Temple Street and Edgeware Road. Metro Bus Line 10 runs east/west on West Temple Street and the DASH Bus Pico Union/Echo Park runs north/south on Edgeware Road. As such, it is consistent with both state and city air quality and vehicle trip reduction priorities. In addition, an *Air Quality, Global Climate Change, and Health Risk Assessment Impact Analysis* ("Air Quality Report'), dated July 27, 2018, was prepared by Kunzman Associates, Inc. for Firmin Court. The Air Quality Report concluded that: a) the Project would not impair implementation of the Air Quality Management Plan; b) Project-related emissions (both construction and operation) would not exceed federal, State, or regional standards or thresholds, nor would Project-related emissions substantially contribute to an existing or projected

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
		air quality violation; c) the Project would not add a considerable cumulative contribution to federal or State non-attainment pollutants, d) the Project would not generate pollutant concentrations to a degree that would significantly affect sensitive receptors; and e) the project would not generate objectionable odors which would significantly affect sensitive uses. Further detail regarding these conclusions are set forth in the Air Quality Report, attached hereto as Appendix C.
E.2. Air Quality: Stationary (Determined not significant by the Initial Study.)		
E3. Meteorology: Wind Effects		
High-rise structures developed under the Specific Plan could contribute to wind jetting and turbulence, causing discomfort for pedestrians.	High-rise structures should require wind modeling which takes into account the structure's design and location relative to existing and planned structures nearby, to determine the effects and design improvements necessary to reduce wind jetting and turbulence to acceptable levels.	Not Applicable. This is a mid-rise structure that will not result in any increased wind impacts.
F. NOISE: Mobile		
Development of Specific Plan entitlements by the year 2010 and at buildout would result in significant construction noise in the project area. Additionally, development of above-grade high-occupancy vehicle (HOV) facilities at the north and south ends of Central City	Enhance landscape plans in areas of sensitive receptors (hospitals, residences, schools and parks) to buffer and absorb ambient noise. Develop plans for functional, safe and attractive sound barriers for above-grade segments of HOV facilities in the northern (residential)	Pursuant to the *Firmin Court Project Noise Impact Analysis*, prepared by Kunzman Associates, Inc., dated August 1, 2018 (Noise Report), and attached as Appendix D, the Project would not exceed any City thresholds related to construction or stationary noise. Surrounding land uses that would be sensitive to increases in

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
West would create new sources of noise impacts.	area of the project area. Structural construction work should be limited to the hours of 7am-9pm Monday-Friday and 8am-6pm Saturday. Power construction equipment should use noise shielding and muffling devices.	noise include the single-family residential uses to the east, the multi-family residential use to the west, directly across Firmin Street, and the multi-family residential use to the south. The Project would not exceed any City thresholds with regards to these sensitive uses. Construction activities would not occur outside of the proscribed hours of 7am-9pm Monday-Friday and 8am-6pm Saturday, as mandated by LAMC Section 41.40.
G. PUBLIC SERVICES		
G.1. Fire Protection		
The Specific Plan in the year 2010 could be served by the existing fire stations in the area, but would require added fire-flow and hydrants in the area's water system and additional staff and equipment at existing stations.	Individual development proposals will be required to expand water systems in the project area to serve an individual site. Tax revenues from permitted development will fund expansion of fire protection facilities and services, under the coordination of the Local Development Corporation.	The fire station nearest to the Project Site is Fire Station 3, which is located approximately 0.7 mile to the northwest at 108 N. Fremont Avenue. This fire station is located within the recommended 1.5-mile response distance as defined by LAMC Section 57.09.07A. Further, the Project is located within 450 feet of a fire hydrant and neither its construction nor its operation will reduce fire-flow below existing levels, consistent with LAMC Section 57.09.06.
G.2. Police Protection		
The Specific Plan in the year 2010 would require addition of a police substation in the project area, with associated	The Specific Plan Ordinance should identify a mechanism to ensure that required added police protection facilities are developed in the project area. Such	As required by the City, the Project would implement principles of the City's Crime Prevention through Environmental Design Guidelines subject to the approval of the Los

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
additional staff and associated equipment.	services could be provided through either the Los Angeles Police Department (LAPD) or through one private security service serving Central City West, under the coordination of the Local Development Corporation. Individual development proposals should comply with recommendations from the Crime Prevention Unit of LAPD and with Municipal Code security standards.	Angeles Police Department (LAPD) prior to the issuance of building permits. The Project would include adequate and strategically positioned lighting to enhance public safety. Visually obstructed and infrequently accessed "dead zones" would be limited, and, where possible, security controlled to limit public access. The building and layout design of the Project would also include nighttime security lighting. These preventative and proactive security measures would decrease the amount of service calls that LAPD would otherwise receive.
G.3. Schools		
The Specific Plan would generate an estimated 873 elementary students, 426 junior high school students, and 426 high school students for a total of 1,725 new students. Without expansion, existing overcrowding of area schools would worsen.	City should assist in identifying land that could be used for school construction.	This mitigation measure addresses a community-wide impact and is not project-specific. The Leroy F. Greene School Facilities Act of 1998 (SB 50) requires development fees to be paid pursuant to development conditions of approval. Pursuant to SB 50, the payment of these school fee amounts provided for in Government Code Sections 65995, 65995.5, and 65995.7 would constitute full and complete mitigation for impact to school facilities attributable to the Project.
G.4. Libraries		
The Specific Plan would result in the addition of 18,000 residents in the CCW area. This population would exacerbate	Expanded library facilities should be funded through Community Facility District assessments.	This mitigation measure addresses a community-wide impact and is not project specific.

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
the existing need for library expansion in the area.		On March 8, 2011, City voters approved ballot Measure L, which amends the City Charter to incrementally increase the amount the City is required to dedicate annually from its General Fund to the Los Angeles Public Library (LAPL) to an amount equal to 0.03 percent of the assessed value of all property in the City, and incrementally increase LAPL's responsibility for its direct and indirect costs until it pays for all of its direct and indirect costs. The measure was intended to provide neighborhood public libraries with additional funding to help restore library service hours, purchase books, and support library programs, subject to audits, using existing funds with no new taxes. Beginning in fiscal year 2014-2015 and thereafter, LAPL was to be responsible for payment of all of its direct and indirect costs. Library funding is now mandated under the City Charter to be funded from property taxes.
G.5. Parks and Recreation		
The Specific Plan provides for the addition of open space and recreational resources totaling about 70 acres. Some 18 acres of the proposed park space is programmed as public park, with the remainder associated with specific permitted developments.	The Specific Plan Ordinance should ensure access to a majority of open space area and recreational resources developed in Central City West to attain a minimum of 52 acres total serving the area, through the administration of a Local Development Corporation.	This mitigation measure addresses a community-wide impact and is not project-specific. Section 8(E)(1) of the Central City West Specific Plan tasks the Department of Recreation and Parks with the acquisition of additional land for parks.

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
H. ENERGY CONSERVATION		
Development of the Specific Plan in the year 2010 would result in an added daily energy demand of some 345 Mwh of electricity and 872 Mcf of natural gas, increases of 185% and 284%, respectively.	Individual projects permitted under the Specific Plan must conform to State Energy Efficiency Guidelines.	The Project is subject to the California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings. The proposed building would meet and/or exceed all City Building Code and Title 24 requirements. As such, the building would incorporate eco-friendly building materials, systems, and features wherever feasible, including Energy Star®-rated appliances, water saving/low-flow fixtures, non-volatile organic compound paints/adhesives, drought-tolerant planting, and high performance building envelopment. The Project would also be subject to the Los Angeles Green Building Code (Ordinance No. 182,849), which adopted portions of the current California Green Building Standards (CALGreen) Code standards to reduce the use of natural resources, create healthier living environments, and minimize the negative impacts of development on local, regional and global ecosystems. Mandatory measures from the Los Angeles Green Building Code that would be applicable to the project and that would help to reduce potential air pollutant emissions include the following: Residential Uses

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
		• 99.04.106.4. Electric Vehicle (EV) charging for new construction. • 99.04.106.5. Cool Roof for Reduction of Heat Island Effect. • 99.04.211.4. Solar Ready Buildings.
I. UTILITIES		
I.1. Power (See Section H – Energy Conservation)		
I.2. Natural Gas (See Section H – Energy Conservation)		
I.3. Water Conservation		
Development of Specific Plan entitlements by the year 2010 would result in increased water consumption of some 2.96 MGD over existing levels, an increase of 114%.	Individual projects developed under the Specific Plan should comply with City requirements for water conservation devices in new structures (Ord. 163,532). The Specific Plan Ordinance should require xeriscape using native and drought-tolerant species in Central City West.	The Project complies with Ordinance 163,532, providing high efficiency fixtures and appliances including but not limited to drought tolerant landscaping, toilets, faucets, tankless water heaters, showerheads, and clothes washers. As discussed in Exemption Table 3-4, Estimated Average Daily Water Consumption, the Project would consume a net total of approximately 6,520 gallons per day (gpd), or 7.45 acre-feet of water per year (af/y). Thus, implementation of the Project is not expected to measurably reduce Los Angeles Aqueduct Filtration Plant's (LAAFP) capacity, and as such, no new or expanded water treatment facilities would be required. The Project would be within the growth projections of the Los Angeles Department of Water and Power (LADWP) and it is, therefore, anticipated that

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
		LADWP would be able to meet the Project's water treatment demand.
I.4. Sewers		
Development of Specific Plan entitlements by the year 2010 would result in Increased sewer demand of some 2.05 MGD over existing levels, an increase of 86%.	The Specific Plan Ordinance should require dual plumbing of commercial structures to provide for grey-water recycling Individual projects developed under the Specific Plan should comply with City requirements for water conservation devices in new structures (Ord. 163,532). No new sewer hook-ups shall be allowed before treatment capacity is available (Ord. 164,964).	Not applicable. Section 13(A)(3) of the Central City West Specific Plan requires "commercial, industrial or Mixed Use Project[s] consisting of 100,000 square feet" to include a dual plumbing system. The proposed residential Project is not required to maintain such a system. The Project complies with Ordinance 163,532, providing high efficiency fixtures and appliances including but not limited to drought tolerant landscaping, toilets, faucets, tankless water heaters, showerheads, and clothes washers. In addition, as discussed in Table 3-4 of the Exemption, the Project is estimated to demand approximately 6,520 gallons of water per day. Conservatively assuming that all water consumed by the Project would result in wastewater generation, the Project would generate approximately 6,520 gpd of wastewater, which is 0.003 percent of the remaining capacity at the Hyperion Treatment

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
		Plant (HTP). Therefore, the HTP would have adequate capacity to serve the Project.
I.5 Storm Water Drainage (See Section L - Surface Water Runoff)		
I.6 Solid Waste		
Development of Specific Plan entitlements by the year 2010 would result in increased solid waste generation of 84 tons per day over existing levels, an increase of 183%.	The Specific Plan Ordinance should require source separation and recycling of development projects and existing residential and non- residential uses in Central City West	Not applicable. Section 13(A)(1) of the Central City West Specific Plan requires "commercial, industrial or Mixed Use Project[s] consisting of 100,000 square feet" to implement a recycling program. The proposed residential Project is not required to maintain such a system, but consistent with state law will maintain recycling services on-site. As shown in Table 3-6, the Project would the Project would generate approximately 363,438 pounds or 181 tons of construction and demolition (C&D) debris. This forecasted solid waste generation is a conservative estimate as it assumes no reductions in solid waste generation would occur due to mandatory recycling. The Project's estimated C&D waste woul3d be approximately 0.0003 percent of the remaining capacity in Los Angeles County. As shown in Table 3-7, the Project would generate an approximate 232 pounds per day of

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
		net solid waste, 50 percent of which would be diverted as required by City and County plans and the balance of which would be disposed of at regional landfills. As discussed on pages 3-45 through 3-48, the regional landfills could accommodate the Project's solid waste.
J. SAFETY AND RISK OF UPSET		
Specific Plan development on abandoned wells may cause hazardous concentrations of natural gas to accumulate under impermeable surfaces and may prevent natural migration of gas. Because historical records on the oil field are not complete the abandonment technique used and the depth of the wells is not known causing a concern with development over inactive wells. With regard to use, storage and transportation of hazardous materials, there will be an incremental increase in the amount of industrial development permitted as compared to existing conditions. This will result in the potential for an increase In the amount of hazardous materials used and the amount of hazardous wastes generated in this area.	A survey should be completed on permitted development sites in the oil field area to verify the abandonment status of any inactive wells and to estimate the likelihood and extent of gas accumulation. Based on these surveys all wells may have to undergo reabandonment to meet present standards The Specific Plan Ordinance should require either gas venting systems or the maintenance of some wells as active to keep such gas from accumulating to dangerous levels. If all active wells are abandoned then a gas venting system sufficient to maintain gas at acceptable levels should be installed to the satisfaction of the State Division of Oil and Gas. With regard to the use and generation of hazardous materials, conformity with all	As discussed in detail in response to Threshold(f) pursuant to CEQA Guidelines Section 15192(f), the Project includes an extensive program for removal of oil wells, in accordance with mitigation measures HAZ-1 through HAZ-8 of this Exemption and all federal and state regulations. (See pages 3-50 through 3-73.)

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
Construction of permitted projects may involve the removal and disposal of asbestos and other hazardous materials.	applicable local, state and federal requirements must be ensured before approval of permitted industrial development	
K. EARTH		
Excavation necessary for Specific Plan land use and transportation facility development by the year 2010 will result in the net export of approximately 4-6 million cubic yards of earth, (some of which may be Class-I soils due to past and current oil extraction).	The Local Development Corporation should identify guidelines (primary routes and times of day) for individual project haul routes. Comply with Municipal Code Grading Regulations. If hazardous soils are exported, dispose of at Class-I dump.	The excavation and grading phase of the Project is anticipated to have approximately 1,344 cubic yards of export. The Project will comply with all applicable LAMC regulations relating to export and hauling. All grading activities would require permits from LADBS, which would include requirements to limit the potential impacts associated with erosion. In addition, on-site grading and site preparation must comply with all applicable provisions in Chapter IX, Division 70 of LAMC, which addresses grading, excavation, and fills. The permits typically require that grading work in excess of 200 cubic yards (cy) that would occur between November 1 and April 15 (the “rainy season”) must include an erosion control system approved by LADBS.
L. WATER		
The Specific Plan would increase permeable ground surfaces through increased open space, and would reduce the area's overall runoff for a given size storm. However, individual sites may not	Individual development proposals' on-site storm drains, off-site connections, extensions and/or expansions should be designed and constructed to the satisfaction of the City Engineer.	Runoff associated with the Project would be directed in non-erosive drainage devices to either landscaped areas for evaporation and/or directed to the existing City storm drain system. The Project would be subject to the provisions of the

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
be adequately served by existing storm sewers in terms of size or configuration.		LID Ordinance. In this regard, the City has established review procedures to be implemented by the DCP, LADBS, and Department of Public Works that expand the review of the SUSMP discussed above. Incorporation of these features would minimize the stormwater runoff from the Project Site. It can be reasonably anticipated, then, that the existing storm drain system has adequate capacity to accommodate flows from the Project Site. The Flood Hazard Management Ordinance (Ordinance No. 172,081), adopted in 1998, establishes a Specific Plan for the Management of Flood Hazards. The Project Site is not in an area identified as a Flood Hazard Area by the Bureau of Engineering Floodplain Management Plan adopted in October 2015 (see Figures 7-4, 7-5, 7-15, and 7-16 of the Flood Hazard Management Ordinance) and therefore there are no provisions of the plan applicable to the Project. Furthermore, according to the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map, the Project Site is within Zone X – Other Areas, which is a designation for areas determined to be outside the 0.2 percent annual chance floodplain. Thus, the Project Site is not within a designated flood hazard area.
	Individual developments shall comply with applicable provisions of the Flood Hazard Management Ordinance and requirements of the Bureau of Engineering.	
Excavation of subterranean structures for projects permitted under the Specific Plan may encounter groundwater at depths of 20-30 feet, depending on season of the year.	Individual development projects should utilize dewatering systems and measures to prevent construction runoff from flowing into on-site excavations and into uses off-site.	

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
		The Project would require excavation between five and 16 feet for remedial grading and construction of the parking level retaining wall. According to the California Geological Survey, the historically-highest groundwater level is approximately 42 feet below the ground surface in the Project area. Groundwater was not encountered in the field explorations associated with the Geotechnical Report, drilled to a maximum depth of 33.5 feet below the existing ground surface. As excavation would not extend below approximately 16 feet in depth, groundwater would not be encountered and dewatering (i.e., removal of groundwater) during construction is not anticipated.
M. BIOTA		
Development of uses permitted under the Specific Plan would result in the replacement of existing vacant lots and attendant common pioneer species of plants and animals with a mix of structures and open space resources.	None required. (See 1.3 - Water Conservation, above, regarding use of native, drought-tolerant xeriscape species for plan area landscaping.)	None required.
N. NATURAL RESOURCES (Determined not significant by the Initial Study.)		
O. CULTURAL RESOURCES		
O 1. Archaeological Resources		
As a built urban environment with few subterranean structures, little is known about the potential for prehistoric	The first projects permitted in the study area north of Sixth Street should conduct site surveys for archaeological resources.	Not Applicable. The Project is not the first project permitted north of Sixth Street. Specifically, a new 12-unit apartment building

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
resources In Central City West. However, the greatest potential for significant resources is in the northern two-thirds of the study area.	Subsequent development proposals should conduct surveys until the Department of City Planning determines that the area has been adequately investigated.	with a subterranean parking garage was approved in 2016 at 327 North Boylston, directly east of the Property. A Sacred Lands File search conducted by the Native American Heritage Commission (NAHC) on October 8, 2018, on behalf of the Project resulted in negative results (see Appendix E). A cultural resource record search was conducted by Sapphos Environmental, Inc. (Ms. Carrie Chasteen) at the South Central Coastal Information Center (SCCIC), located at California State University, Fullerton on July 24, 2018. The search was conducted in Township 1 South, Range 13 West, Section 21 within the U.S. Geological Survey (USGS) 7.5-minute series Hollywood topographic quadrangle. The results of the record search indicate no surveys were previously conducted of the subject properties and six surveys were conducted exclusively within a 0.25-mile search radius of the subject properties (see Table 1 of the Historic Report, provided as Appendix F to this Exemption). One built environment resource has been previously documented and is located exclusively within the 0.25-mile search radius.

Table 3-3
Project Consistency with Central City West Specific Plan (CCWSP) EIR Mitigation Measures

Environmental Impacts	Recommended Mitigation Measures	Project Compliance
O 2. Paleontological Resources		
Same as O.1.	Same as O.1.	Not Applicable. See response to O 1.
O 3. Historical Resources		
The Specific Plan identifies receptor zones for historic structures, but does not forbid demolition of such structures; as a result, development of permitted projects may result In the demolition of significant historic resources. Out of 1,404 parcels in the Specific Plan area, 358 buildings are of potential historic significance due to age and style. This comprises fully one out of every four structures in the study area. Although no buildings have been federally listed, 3 structures may be eligible for listing on the National Register of Historic Places. At the City level, 3 buildings are designated Historic-Cultural Monuments. Historic clusters include 65 structures worthy of consideration for Inclusion within Overlay Zones. In addition, 10 individual buildings merit consideration as Historic-Cultural Monuments of the City of Los Angeles.	The Specific Plan Ordinance should identify specific historic structures to be maintained and/or moved to designated receptor zones, and provide incentives for property owners to preserve these structures. Future studies should be conducted to determine the potential for the establishment of Historic Preservation Overlay Zones.	The Central City West Specific Plan identifies the structure located at 430 Firmin Street as a Potentially Historic Resource. As discussed in more detail in response to CEQA Guidelines Section 15192 Threshold(g) (at pages 3-73 to 3-77), the structure at 430 Firmin will be relocated in accordance with the Secretary of Interior's Standards for the Treatment of Historic Buildings. (See the Historic Report attached as Appendix F and pages 3-73 to 3-77 of this Exemption.)

Planning and Zoning Code

All on-site development activity is subject to the Planning and Zoning Code. The Planning and Zoning Code includes development standards for the various districts in the City. The Project Site is zoned CW "Central City West Specific Plan Zone," which indicates that the development regulations on the Project Site is established by the CCWSP Ordinance. The CCWSP identifies land use categories and height/floor area ratio districts that guide development on-site. The Project Site has a land use category and height/floor area ratio district of R4(CW)-75/3-O, which allows for R4 multi-family residential uses with a maximum height of 75 feet and floor area ratio of 3:1.

Land uses allowed in the R4 Multiple Dwelling Zone include, but are not limited to, the following:

- Any use permitted in the R3 Zone, such as group dwellings or multiple dwellings.
- Churches.
- Child care facilities or nursery schools.
- Hotels, motels and apartment hotels.
- Fraternity or sorority houses.
- Schools, elementary and high, or educational institutions.
- Museums or libraries.
- Retirement hotels.
- Shelter for the homeless.
- Eldercare facility

The Project includes the construction of a new seven-story, 64-unit, 100 percent affordable housing residential building. The maximum height of the Project would not exceed 86 feet in seven stories, as measured from the lowest finished grade adjacent to the proposed Project building to the roof ridge. The Central City West Specific Plan's (CCWSP) Map No. 2 for the North Subarea (Temple/Beaudry Neighborhood District) indicates a height restriction of 75 feet for the Project Site. The TOC Additional Incentive for height indicates that for Eligible Housing Developments that have a residential use which occupies more than 50 percent of the total floor area within a building, that the applicable Total Height and Transitional Height standards count as one Incentive and that any increase in height is applicable over the entire parcel. Additionally, the TOC Height Incentive for Tier 3 Eligible projects allows the height in any zone in which height or number of stories is limited to be increased by two additional stories up to 22 additional feet. The Applicant is proposing to increase the maximum height of the building by 11 feet to allow 86 feet in lieu of 75 feet. The total floor area of the Project would be a maximum of 51,299 square feet, or 4.35 FAR. Pursuant to LAMC Section 12.21 A.16, the Project would provide a total of 56 bicycle parking spaces, consisting of 51 long-term spaces and five short-term spaces. Long-term bicycle parking spaces would be provided in the lower

level of the on-site parking garage while short-term bicycle spaces would be provided on the ground floor along the westerly property line off of Firmin Street.

CCWSP, Appendix D, Urban Design Guidelines, Section C.2 requires that one tree be provided on-site for every dwelling unit, each of which shall be a minimum of 12 feet in height and three inches in caliper at the time of planting; however, in the event that this requirement cannot be met, as an alternative compliance, the applicant may, upon approval by the Director of Planning, place up to 50 percent of the required trees off-site, first, at locations within the CCWSP, or, second, at locations within the Westlake Community Plan Area.

The Applicant is proposing to provide 35 on-site trees and requests that 29 trees be provided off-site at locations within the CCWSP or at locations within the Community Plan Area, in coordination with City Plants, a public-private partnership with the City of Los Angeles under the Board of Public Works.

The Project Site is located within a Tier 2 area under the TOC Affordable Housing Incentive Program, per LAMC Section 12.22 A.31 and the TOC Guidelines. The Tier 2 designation applies to sites located within 750 feet of an intersection between two intersecting bus lines that each have at least 15-minute average peak headways and, in the case of the Project Site, is based on proximity to two bus lines (Metro Bus Line 10 and DASH Bus Pico Union/Echo Park) that serve the intersection of Temple Street and Edgeware Road. Metro Bus Line 10 runs east/west every three to 15 minutes on West Temple Street and the DASH Bus Pico Union/Echo Park runs north/south on Edgeware Road every 10 minutes during peak hours.

Additionally, pursuant to the TOC Guidelines, buildings that are Eligible Housing Developments that consist of 100 percent on-site restricted affordable units, exclusive of a building manager's unit or units, are eligible for one increase in Tier than otherwise would be provided. Because the Project is comprised of 100 percent affordable units with two-thirds of the units designated as PSH, the Project qualifies for the increase to Tier 3.[2] Tier 3 projects that meet the criteria for allocation of affordable units, are automatically eligible for Base Incentives for increased residential density, increased floor area, and reduced automobile parking.

Tier 3 Incentives

The Project proposes to develop the Project Site utilizing the following three Tier 3 Base Incentives:

[2] *On June 12, 2018, the Department of City Planning Priority Housing Services Unit confirmed the Tier 3 designation and assigned the following case number: PAR-2018-3364-TOC.*

- Density: 64 residential units, which is a 45 percent density increase above the 44 units allowed by R4 zoning;

- Floor Area: a maximum FAR of 4.35:1 which is a 45 percent increase over the 3:1 FAR allowed under the CCWSP; and

- Parking: No required parking. Nevertheless, the Project would provide 10 automobile parking spaces to provide parking for residents and employees providing permanent supportive services.

The Project is eligible to utilize up to three Additional Incentives in the TOC Guidelines in exchange for setting aside at least 10 percent, or seven units, of 64 total units for Extremely Low Income Households. Furthermore, because the Project will adhere to the labor standards per LAMC Section 11.5.11, the Project may be granted two Additional Incentives for a total of up to five Additional Incentives.

As outlined below, the Project would utilize the following four Additional Incentives:

- Reduced yards: Tier 3 allows for a 30 percent decrease of two individual yards. The side yard setback requirement for the Project is 10 feet; however, the Project is utilizing the TOC Additional Incentive to allow a 30 percent decrease in the northerly side yard setback, which reduces the requirement to 7 feet. The rear yard setback requirement for the Project is 19 feet; however, the Project proposes to utilize the 30 percent reduction in the rear yard setback, which reduces the requirement to 13.3 feet;

- Reduced total open space: The TOC Additional Incentive to decrease the open space requirement by 25 percent allows for a reduction from the required 7,075 square feet to 5,307 square feet of total open space. The Project would provide 5,307 square feet of open space, consisting of common open space areas located within two community rooms, a 3rd level podium courtyard and 7th level Skydeck and 50 percent of the front yard setback [as allowed by CCWSP, Appendix D, Urban Design Guidelines, Section C.1(c)];

- Reduced common open space: The CCWSP, Appendix A, Urban Design Guidelines, Section C.1.(a) requires a minimum of 100 square feet per unit of useable open space be provided as common open space. Therefore, 6,400 square feet of common open space would be required for this Project. The Project proposes to use a TOC Additional Incentive to reduce this common open space requirement by 17.1 percent to match the reduced amount of total open space required (5,306 square feet). The Project would also include private balconies on 14 of the 64 residential units, which are not counted towards the minimum open space requirement; and

- Height: The CCWSP Map No. 2 for the North Subarea (Temple/Beaudry Neighborhood District) indicates a height restriction of 75 feet for the Project Site. The TOC Additional Incentive for height indicates that for Eligible Housing Developments that have a residential use which occupies more than 50 percent of the total floor area within a building, that the applicable total height and transitional height standards count as one incentive and that any increase in height is applicable over the entire parcel. Pursuant to the TOC Guidelines, projects located within a Specific Plan that regulates height, such as the Project Site, shall require any height increases over 11 feet to be stepped-back at least 15 feet from the exterior face of the ground floor of the building located along any street frontage. The Project would increase the maximum height of the building by 11 feet from 75 feet to 86 feet.

Therefore, the Project is consistent with all applicable zoning provisions in conjunction with the approval of the TOC Incentives.

Threshold Criteria 15192 (b): Community-level environmental review has been adopted or certified.

The CCWSP was adopted by the City Council, effective April 3, 1991, and was amended in 1992, 2005, 2008 and 2009. The City Council certified the EIR (State Clearinghouse Number 88-110904) for the CCWSP concurrent with adoption and approved addenda, as necessary, for the amendments.

Threshold Criteria 15192 (c): The project and other projects approved prior to the approval of the project can be adequately served by existing utilities, and the project applicant has paid, or has committed to pay, all applicable in-lieu or development fees.

Water

The City of Los Angeles Department of Water and Power (LADWP) currently supplies water to the Project Site. LADWP is responsible for ensuring that water demand within the City is met and that State and federal water quality standards are achieved. The City's water supply primarily comes from the Los Angeles-Owens River Aqueduct, State Water Project, and from the Metropolitan Water District of Southern California (MWD), which is obtained from the Colorado River Aqueduct, and from local groundwater sources. The City is also making efforts to increase the availability of water supplies, including increasing recycled water use and identification of alternative water supplies, such as water transfer, desalination, and stormwater runoff reuse, as well as implementing management agreements for long-term groundwater use strategies to prevent overdraft.

The Los Angeles Department of Water and Power's (LADWP) *2015 Urban Water Management Plan* (2015 UWMP) serves as the City's master plan for reliable water supply and resources management. The 2015 UWMP confirmed that the rate of water use in the City has remained relatively consistent over the previous five years and about the same as in the 1970s. The 2015 UWMP is specific to the Los Angeles area and incorporates the Mayor's Sustainable City pLAn goals, to achieve up to a 25 percent reduction in gallons per capita per day by 2035, a 50 percent reduction of imported purchase water by 2025, and expand all local sources of water so that they account for at least 50 percent of the total supply by 2035.

LADWP ensures the reliability and quality of its water supply through an extensive distribution system that includes more than 7,300 miles of pipelines, 119 storage tanks and reservoirs within the City, and a total of 315,245 acre feet of total storage capacity.[3] Much of the water flows north to south, entering the City at the Los Angeles Aqueduct Filtration Plant (LAAFP), which is owned and operated by LADWP, in the community of Sylmar. LAAFP has the capacity to treat approximately 600 million gallons per day (mgd). The existing water lines that currently serve the Project Site would serve the Project. If water main or infrastructure upgrades are required, the Project Applicant would be required to pay for such upgrades, which would be constructed by either the Project Applicant or LADWP. To the extent such upgrades result in a temporary disruption in service, proper notification to LADWP customers would take place, as is standard practice. In the event that water main and other infrastructure upgrades are required, it would not be expected to create a significant impact to the physical environment because: (1) any disruption of service would be of a short-term nature, (2) replacement of the water mains would be within public rights-of-way, and (3) any foreseeable infrastructure improvements would be limited to the immediate Project vicinity. Therefore, potential impacts resulting from water infrastructure improvements, if any are to be required, would be less than significant and no mitigation measures are required.

The Project's estimated water consumption is presented on Table 3-4, Estimated Average Daily Water Consumption. As shown, the Project would consume a net total of approximately 6,520 gallons per day (gpd), or 7.45 acre-feet of water per year (af/y). The 2015 UWMP water demand projection for 2040 is approximately 710,800 af/y for average years, 753,400 af/y for single-dry years, and 725,000 af/y for multiple-dry years. As shown in Table 3-4 below, the Project would consume approximately 6,520 gallons per day (gpd), or 7.45 acre-feet of water per year (af/y). This amount would represent

[3] *Los Angeles Department of Water and Power, About Us, Water, Facts & Figures, website: https://www.ladwp.com/ladwp/faces/ladwp/aboutus/a-water/a-w-factandfigures?_afrLoop=8329902439523&_afrWindowMode=0&_afrWindowId=18l3zn65m4_82#%40%3F_afrWindowId%3D18l3zn65m4_82%26_afrLoop%3D8329902439523%26_afrWindowMode%3D0%26_adf.ctrl-state%3D18l3zn65m4_102, accessed: August 2018.*

approximately 0.001 percent of the water supply in 2040 in average, single-dry, and multiple-dry years.

These projections are considered to be conservative as the Los Angeles Bureau of Sanitation generation rates used to calculate the Project's estimated water consumption do not account for any water conservation features required by local and State policies and regulations. In accordance with LAMC Sections 122.00 - 122.10 and the City's Green Building Code Section 99.4.304.2, the Project would be required to implement water saving features to reduce the amount of water used by the Project including high efficiency toilet and urinals, low flow showerheads and faucets, draught tolerant and native plants, drip/subsurface, zoned irrigation with weather-based irrigation controllers, water-conserving turf, and high-efficiency clothes washers. All fixtures would be required to meet applicable flush volumes and flow rates. In addition, the Project would be prohibited from using single-pass cooling systems. The Project would also be required to adhere to the City's Irrigation Guidelines and utilize smart irrigation with automatic sensors to determine when irrigation is needed and when irrigation should be suspended due to rain or wind conditions. Compliance with these requirements and water conservation measures, including Title 20 and 24 of the California Code of Regulations, would further reduce the above projected water demand below the sewage generation factors assumed by the City's Bureau of Sanitation.

Thus, implementation of the Project is not expected to measurably reduce LAAFP's capacity, and as such, no new or expanded water treatment facilities would be required. The Project would be within the growth projections of the LADWP and it is, therefore, anticipated that LADWP would be able to meet the Project's water demand.

Table 3-4
Estimated Average Daily Water Consumption

Land Use	Size	Consumption Rate[a]	Total Water Consumed (gpd)	Total Water Consumed (AF/Y)
Existing Uses				
Single-Family Residence	2 units	230 gpd/du	460 gpd	0.365
Total Existing Water Consumption			***460 gpd***	***0.365***
Proposed Uses				
Studio Apartment	28	75 gpd / du	2,100	2.35
1-Bedroom Apartment	17	110 gpd / du	1,870	2.09
2-Bedroom Apartment	15	150 gpd / du	2,250	2.52
3-Bedroom Apartment	4	190 gpd / du	760	0.85
Total Proposed Water Consumption			*6,980 gpd*	*7.81*
Less Existing			***460 gpd***	***0.36***
Total Net Project Water Consumption			**6,520 gpd**	**7.45**
Notes: du = dwelling units; gpd = gallons per day; AF/Y = acre-feet per year				

Table 3-4
Estimated Average Daily Water Consumption

Land Use	Size	Consumption Rate[a]	Total Water Consumed (gpd)	Total Water Consumed (AF/Y)

[a] *Based on 120% of rates provided by City of Los Angeles Bureau of Sanitation, Sewer Generation Rates Table, April 6, 2012.*

Source (table): EcoTierra Consulting, 2018.

Wastewater

The City's Bureau of Sanitation provides sewer service to the Project area. The existing Project Site has existing sewer connections to the City's sewer system. Sewage from the Project Site is conveyed via existing sewer infrastructure to the Hyperion Treatment Plant (HTP). Since 1987, the HTP has had capacity for full secondary treatment. HTP has the capacity to treat approximately 450 mgd of wastewater to full secondary treatment level and currently treats 275 mgd. The remaining capacity at the HTP is approximately 175 million gpd or approximately 39 percent of its total capacity.[4]

As shown above in Table 3-4, the Project is estimated to demand approximately 6,520 gallons of water per day. Conservatively assuming that all water consumed by the Project would result in wastewater generation, the Project would generate approximately 6,520 gpd of wastewater, which is 0.003 percent of the remaining capacity at the HTP. Therefore, the HTP would have adequate capacity to serve the Project. As such, with respect to the capacities of wastewater treatment facilities, no mitigation measures are required.

Existing wastewater infrastructure serving the Project Site includes a 6-inch diameter pipeline within Firmin Street.[5] Based on the estimated net wastewater generation of approximately 6,520 gpd of wastewater, the existing sewer lines have excess capacity and would thus be able to accommodate the additional flow under either option. Project Applicant would be required to pay any fees or perform additional work as necessary as a condition of building permit.

Solid Waste

Waste disposal sites (i.e., landfills) are operated by the City and County of Los Angeles as well as by private companies. In addition, transfer stations temporarily store debris

[4] *City of Los Angeles Department of Public Works, LA Sewers, Treatment Plants, website: https://www.lacitysan.org/san/faces/wcnav_externalId/s-lsh-wwd-cw-p-hwrp?_adf.ctrl-state=dhaccxnf5_4&_afrLoop=12871353875643946#!, accessed: August 2018.*

[5] *City of Los Angeles NavigateLA, Bureau of Engineering, Department of Public Works, website: http://navigatela.lacity.org/NavigateLA/, accessed: August 2018.*

until larger haul trucks are available to transport the materials directly to the landfills. Landfill availability is limited by several factors, including: (1) restrictions to accepting waste generated only within a particular landfill's jurisdiction and/or wastershed boundary, (2) tonnage permit limitations, (3) types of waste, and (4) operational constraints. Planning to serve long-term disposal needs is constantly being conducted at the regional level (e.g., siting new landfills within the County and transporting waste outside the region). Most commonly, the City is serviced by the Sunshine Canyon Landfill. The landfill accepts residential, commercial, and construction waste. Solid waste from the project area is transported to the Sunshine Canyon Landfill for disposal by private waste haulers. Table 3-5, Current Landfill Capacity and Intake, details the permitted daily intake and estimated remaining capacity at these landfills currently.

Table 3-5
Current Landfill Capacity and Intake

Landfill Facility	Permitted Daily Intake (tpd)[a]	2015 Average Daily Intake (tpd)	Estimated Total Remaining Permitting Capacity (million tons)
Sunshine Canyon	12,100	7,701	72.6

Notes: tpd = tons per day

Source (table): County Department of Public Works, Countywide Integrated Waste Management Plan 2015 Annual Report.

Construction Solid Waste Impacts

Implementation of the Project would generate Construction and Demolition (C&D) waste. C&D debris includes concrete, asphalt, wood, drywall, metals, concrete rubble, and other miscellaneous and composite materials. Table 3-6, Estimated Project Construction and Demolition Solid Waste, presents the Project's estimated C&D waste.

Table 3-6
Estimated Project Construction and Demolition Solid Waste

Construction Activity	Size	Generation Rate[a]	Total Solid Waste Generated
Project Construction	51,299 sf	4.34 lbs/sf	222,638 lbs (111 tons)
Demolition and Relocation of Existing Residential Uses	2,816 sf	50 lbs/sf	140,800 lbs (70 tons)
Total Demolition and Construction Waste			**363,438 lbs (181 tons)**

Notes: sf = square feet; lbs = pounds

[a] *Source: U.S. Environmental Protection Agency, Estimating 2003 Building-Related Construction and Demolition Material Amounts, March 2009, Table 2-1 (Residential Construction).*

Source (table): EcoTierra Consulting, 2018.

As shown in Table 3-6, the Project would generate approximately 363,438 pounds or 181 tons of C&D debris. Demolition, grading, excavation, and site preparation activities would

occur over approximately five months or 110 work days (22 work days per month), thereby generating approximately 1.65 tons per day. Building construction would occur over approximately 13 months, or 286 works day (22 work days per month), thereby generating approximately 0.63 tons per day.

This forecasted solid waste generation is a conservative estimate as it assumes no reductions in solid waste generation would occur due to recycling. In order to help meet the landfill diversion goals, the City adopted the Citywide C&D Waste Recycling Ordinance (Ordinance No. 181,519). This ordinance, which became effective January 1, 2011, requires that all haulers and contractors responsible for handling C&D waste obtain a Private Solid Waste Hauler Permit from the Bureau of Sanitation prior to collecting, hauling, and transporting C&D waste. It requires that all C&D waste generated within City limits be taken to City certified C&D waste processors, where the waste would be recycled to the extent feasible. Moreover, there are 60 million tons of remaining capacity available in Los Angeles County for the disposal of inert waste. Some C&D waste may also be landfilled at the Class III landfill identified above. The Project's estimated C&D waste would be approximately 0.0003 percent of the remaining capacity of 60 million tons in Los Angeles County. Thus, Project-generated C&D waste would represent a very small percentage of the waste disposal capacity in the region, and, as noted, the aggregate amount estimated in the above table would not all be landfilled in compliance with City's recycling requirements to the extent feasible.

Operational Solid Waste Impacts

The Project would generate solid waste that is typical of a residential project and would be consistent with all federal, State, and local statutes and regulations regarding proper disposal. As shown in Table 3-7, Project Estimated Daily Solid Waste Generation, the Project would generate an approximate 232 pounds per day of net solid waste.

Table 3-7
Estimated Project Operational Solid Waste

Land Use	Size	Generation Rate[a]	Total Solid Waste Generated (lbs/Day)
Existing Uses			
Single-Family	2 units	12.23 lbs/unit	24.46
		Total Existing Solid Waste Generated	***24.46***
Proposed Uses			
Multi-Family Residence	64 units	4 lbs/unit	256
		Total Proposed Solid Waste Generated	*256*
		Less Existing	***24.46***
		Total Net Project Solid Waste Generated	**231.54**
Notes: sf = square feet; lbs = pounds; emp = employees			

Table 3-7
Estimated Project Operational Solid Waste

Land Use	Size	Generation Rate[a]	Total Solid Waste Generated (lbs/Day)
[a] *L.A. CEQA Thresholds Guide, 2006, page M.3-2.*			
Source (table): EcoTierra Consulting, 2018.			

All solid waste-generating activities within the City, including the Project, would continue to be subject to the requirements set forth in The California Integrated Waste Management Act of 1989 (AB 939). AB 939 was enacted to reduce, recycle, and reuse solid waste generated in the state to the maximum extent feasible. Specifically, AB 939 required cities and counties to identify an implementation schedule to divert 50 percent of the total waste stream from landfill disposal by 2000. Therefore, it is estimated that the Project would divert 50 percent of its solid waste generated pursuant to the proposed City and County Specific Plans, thereby diverting this waste from landfills. Furthermore, AB 341 requires multi-family residential developments with five units or more to provide for recycling services on site. Nonetheless, it is conservatively assumed that all 22.09 pounds per day of the Project's solid waste would be disposed of at regional landfills. As discussed previously, the average daily intake of the Sunshine Canyon Landfill is approximately 7,701 tons and the permitted daily intake is 12,100 tons per day. According to the *2015 Annual Report*, the Sunshine Canyon Landfill had approximately 72.6 million tons of remaining capacity.[6] As such, the landfill's permitted daily intake of 12,100 tons per day (tpd) would accommodate the daily operational waste generated by the Project.

Additionally, the Project would pay any required fees for utilities.

Threshold Criteria 15192 (d): The site of the project:

(1) Does not contain wetlands, as defined in Section 328.3 of Title 33 of the Code of Federal Regulations.

(2) Does not have any value as an ecological community upon which wild animals, birds, plants, fish, amphibians, and invertebrates depend for their conservation and protection.

(3) Does not harm any species protected by the federal Endangered Species Act of 1973 (16 U.S.C. Sec. 1531 et seq.) or by the Native Plant Protection Act (Chapter 10 (commencing with Section 1900) of Division 2 of the Fish and Game Code), the

[6] *County of Los Angeles Department of Public Works, Countywide Integrated Management Plan 2015 Annual Report, December 2015, page 31.*

California Endangered Species Act (Chapter 1.5 (commencing with Section 2050) of Division 3 of the Fish and Game Code.

(4) Does not cause the destruction or removal of any species protected by a local ordinance in effect at the time the application for the project was deemed complete.

The Project Site is within a highly urbanized and developed area, and is currently developed with two homes. Review of the National Wetlands Inventory identified no protected wetlands in the immediate Project Site area.[7] The Project does not include removal, filling, hydrological interruption, or any other effects of any waterbody. Therefore, the Project does not contain wetlands, as defined in Section 328.3 of Title 33 of the Code of Federal Regulations.

According to Exhibit C-2 of the *L.A. CEQA Threshold Guide*, neither the Project Site nor adjacent areas are identified as a biological resource area. Moreover, the Project Site and is not within a designated or proposed Significant Ecological Area.[8] The Project Site and its vicinity are not part of any draft or adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional or state habitat conservation plan. There are no wildlife corridors or native wildlife nursery sites on the Project Site. No riparian or other sensitive habitats are located on or adjacent to the Project Site. Therefore, the Project Sites do not have any value as an ecological community upon which wild animals, birds, plants, fish, amphibians, and invertebrates depend for their conservation and protection.

A visual tree survey ("Tree Survey") was completed on April 30, 2018 (see Appendix G to this document). The purpose of the Tree Survey was to determine whether any protected species trees as defined under City Ordinance 177,404, i.e., Oaks (*Quercus* sp.) indigenous to California but excluding the Scrub Oak (*Quercus dumosa*), Southern California Black Walnut (*Juglans californica* var. *californica*), Western Sycamore (*Platanus racemosa*) and California Bay (*Umbellularia californica*), are present on the Project Site. The survey determined that all of the trees on the Project Site are ornamental/exotic species that were planted as part of the original landscape development or have volunteered (i.e., grown on their own, rather than being deliberately planted) over time. No protected species trees as defined under City Ordinance 177,404 were observed on the Project Site. Therefore, the Project Site does not contain any habitat capable of sustaining any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California

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[7] *U.S. Fish and Wildlife Service,* National Wetlands Inventory, Wetlands Mapper, website: http://www.fws.gov/wetlands/Data/Mapper.html, accessed June 20, 2018.

[8] *Los Angeles County Department of Regional Planning, Planning & Zoning Information, GIS-NET3 online database, website: http://planning.lacounty.gov/gisnet3, accessed June 20, 2018.*

Department of Fish and Game or U.S. Fish and Wildlife Service. In addition, there are no known locally designated natural communities at the Project Site or in the Project vicinity. Therefore, the Project would have no impacts on sensitive biological species or habitat.

According to Exhibit C-2 of the *L.A. CEQA Threshold Guide*, the Project Site and immediately surrounding area are not identified as a biological resource area. Moreover, the Project Site is not within a designated or proposed Significant Ecological Area.[9]

Therefore, the Project would not harm any species protected by the federal Endangered Species Act of 1973 (16 U.S.C. Sec. 1531 et seq.) or by the Native Plant Protection Act (Chapter 10 (commencing with Section 1900) of Division 2 of the Fish and Game Code), the California Endangered Species Act (Chapter 1.5 (commencing with Section 2050) of Division 3 of the Fish and Game Code.

The Project would result in the removal of existing trees on the Project Site, which could potentially contain nesting sites for migratory birds. The Project would be required to comply with the Migratory Bird Treaty Act (MBTA). Migratory nongame native bird species are protected by international treaty under the Federal MBTA of 1918 (50 C.F.R Section 10.13). Sections 3503, 3503.5 and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests including raptors and other migratory nongame birds (as listed under the Federal MBTA). Compliance with the MBTA would ensure that the Project would not cause the destruction or removal of any species protected by a local ordinance. As the Project Site does not contain nor facilitate any sensitive species or habitat, the Project would not cause the destruction or removal of any species protected by a local ordinance.

Threshold Criteria 15192 (e): The site of the project is not included on any list of facilities and sites compiled pursuant to Section 65962.5 of the Government Code.

California Government Code Section 65962.5 requires various State agencies to compile lists of hazardous waste disposal facilities, unauthorized releases from underground storage tanks, contaminated drinking water wells, and solid waste facilities where there is known migration of hazardous waste, and submit such information to the Secretary for Environmental Protection on at least an annual basis.

There are no known hazardous sites associated with the Project Site as according to California Department of Toxic Substances Control's ("DTSC") EnviroStor database.[10] Therefore, construction and operation of the Project would not pose an environmental hazard to surrounding sensitive uses or the environment in regards to siting the Project

[10] *California Department of Toxic Substances Control, EnviroStor, website: http://www.envirostor.dtsc.ca.gov/public/, accessed: March 2019.*

on a known hazardous waste site or any other type of site appearing on a list compiled pursuant to Section 65962.5 of the Government Code.

Threshold Criteria 15192 (f): The site of the project is subject to a preliminary endangerment assessment prepared by a registered environmental assessor to determine the existence of any release of a hazardous substance on the site and to determine the potential for exposure of future occupants to significant health hazards from any nearby property or activity. In addition, the following steps have been taken in response to the results of this assessment:

(1) If a release of a hazardous substance is found to exist on the site, the release shall be removed, or any significant effects of the release shall be mitigated to a level of insignificance in compliance with state and federal requirements.

(2) If a potential for exposure to significant hazards from surrounding properties or activities is found to exist, the effects of the potential exposure shall be mitigated to a level of insignificance in compliance with state and federal requirements.

The discussion below references the following documents, which are included as Appendix H to this document:

- Phase I Environmental Site Assessment (Phase I) conducted by EFI Global, Inc. on June 9, 2017 ("EFI Global, 2017a")
- Phase II Environmental Site Assessment (Phase II) conducted by EFI Global, Inc. on November 9, 2017 ("EFI Global, 2017b")
- Preliminary Geologic and Geotechnical Engineering Investigation conducted by GeoConcepts, Inc. in November 2017
- Subsurface Environmental Investigation conducted by Essel Environmental Engineering & Consulting (Essel) on April 30, 2018
- Additional Subsurface Environmental Investigation conducted by Essel on December 14, 2018
- Site Remediation Plan prepared by Essel on October 24, 2018

Phase I Environmental Site Assessment

EFI Global, Inc. (EFI Global, 2017a) performed a Phase I Environmental Site Assessment (ESA) of the Project Site in May and June 2017. Available historical records presented in the Phase I ESA show that single-family residences have occupied the southwestern parcel at 418 Firmin Street from sometime before 1890 to the present time. The central parcel, at 426 Firmin Street, contained small outbuildings in 1890 and 1894 and a small

residence size structure (labeled vacant) in 1906. This parcel appears to have been vacant from at least 1927 to mid-1947, was occupied by a single-family residence from mid-1947 until 1983, and has been vacant land since 1983. The northeastern parcel at 430 Firmin Street was occupied by small outbuildings associated with a nearby residential dwelling in 1890 and has been occupied by a single-family dwelling since 1894. EFI Global identified two historic oil wells at the site, based on review of California Division of Oil, Gas & Geothermal Resources (DOGGR) maps. Online DOGGR records show one oil well, identified as H. Rogalske well 1-1, was discovered beneath a driveway at 418 Firmin Street and this well was plugged and abandoned in May 1941. A second oil well, identified as H. Rogalske well 2A, appears to have been located on the 426 Firmin Street parcel and no DOGGR records are available for this well.

EFI Global did not find evidence of previous or current hazardous materials storage or use at the site, indicated that the site was not listed on any regulatory agency environmental databases researched, and stated that applicable regulatory agencies contacted did not have environmental records pertaining to the site. EFI Global indicated that no adjacent or nearby properties posed a significant threat to the site as a result of releases of hazardous substances. The site was identified to be within a methane zone designated on a map prepared by the Los Angeles Department of Public Works and EFI Global indicated that testing for the presence of methane and installation of methane mitigation systems might be necessary before new construction takes place. EFI Global concluded that the historic presence of oil wells and the typical oil field exploration and production activities associated with the wells represented a recognized environmental condition at the site and recommended that a Phase II ESA be performed.

Asbestos Containing Building Materials

Based on the age of the onsite structures, there is a potential for asbestos containing materials (ACM) at the Project Site. ACM can be found in a multitude of building products which include decorative and acoustical plaster texture, fire-proofing (Monokote), joint compound, attic and wall insulation, resilient floor covering, mastic, recessed lighting fixtures, wiring, elevator brakes, fire doors, pipe insulation, pipe gaskets, duct insulation, duct tape, siding and roofing materials (tar/shingles), textured paint, stucco, concrete, asphalt underlayment (Petromat) and plaster.

Potential ACM observed during the site reconnaissance include: wood and drywall partitions, tile and associated mastic, and acoustic ceiling texture. Potential ACM appeared to be in good condition. Prior to demolition and relocation of on-site structures the City will require an asbestos survey and the abatement of any asbestos containing materials prior to the issuance of permits for renovation or demolition. ACM identification and remediation is regulated by the U.S. Environmental Protection Agency (EPA) NESHAP 40 CFR Part 61. Therefore, impacts would be less than significant.

Lead-Based Paint

Based on the age of the on-site structures, there is a potential for lead based paint (LBP) at the Project Site. Although the use of lead-based paint in residential structures has been prohibited since 1978, it is approximated that 80 percent of buildings built prior to 1978 contain lead paint. According to the Phase I, observed painted surfaces at the Project Site appeared to be in good condition. It should be noted that construction activities that disturb materials or paints containing any amount of lead may be subject to certain requirements of the Occupational Safety and Health Administration (OSHA) lead standard contained in 29 CFR 1910.1025 and 1926.62. Provided the removal and disposal of LBP from the Project Site follows the various required guidelines and implementation of regulatory compliance measures occurs, hazardous materials impacts relative to exposure to lead would be less than significant.

Radon

Radon is a radioactive gas that has been found in structures all over the United States. Radon is produced from the natural breakdown of uranium in soil, rock, and water. Radon typically moves up through the ground and into structures through cracks and other holes in the foundation. Movement of radon through the earth is strongly influenced by moisture content and permeability of soil, porosity, and degree of fracturing in rocks, as well as surface meteorological conditions. High levels of radon have been discovered in every state.

According to the EPA, the Project Site, being located in Los Angeles County, is situated within Radon Zone 2, with a predicted average indoor radon screening level between 2 and 4 picoCuries per Liter (pCi/L, moderate potential), which is below the 4.0 pCi/L action level set by the EPA. Therefore, impacts would be less than significant and no mitigation measures would be required.

Mold

When mold and fungi (mildews) growth occurs in buildings, it can be very destructive to the materials on which they grow and cause high levels of airborne mold spores and volatile organic compounds associated with the characteristic musty / moldy odor. They cause staining, decomposition (rotting of materials) and objectionable, musty odors. Where colonies are extensive they can also produce enough spores, and by-products to be harmful to health. Many of the by-products of mold and fungus (mildew) are irritating to skin, eyes and respiratory tracts. Some molds produce true allergic sensitization and allergic reactions in susceptible people. Some molds produce toxic by-products that could be harmful to skin, and poisonous if ingested or inhaled in quantity. Persons with

compromised immune systems may even experience systemic fungal infections of the respiratory tract.

A limited amount of interior areas of the subject buildings were observed in order to identify the significant, visible presence of mold. This activity was not intended to discover all areas which may be affected by mold growth at the Project Site. Potential areas of mold not observed as part of this limited assessment, include but are not limited to, pipe chases, HVAC systems and within enclosed wall and ceiling cavities that may be present in the subject property. The presence of mold was not observed visibly or by olfactory indications. There were no obvious indications of significant water damage. Therefore, impacts would be less than significant and no mitigation measures are required.

Phase II Environmental Site Assessment

EFI Global (2017b) performed a Phase II ESA at the site in October 2017. The scope of work included conducting a geophysical survey and advancing six borings to collect soil samples for laboratory analysis. In the report, EFI Global indicated that the site and vicinity were historically used for oil production activities and that DOGGR maps showed several historic oil wells on the site and adjacent properties. These wells were located in the Los Angeles City oil field.

The geophysical survey was performed to attempt to identify the locations of the historic oil wells. A ground penetrating radar scan was used over much of the property and electromagnetic equipment was used to scan the central 426 Firmin Street parcel. The results of the survey showed an anomaly (low conductivity) at a depth of 4 feet below the ground surface at the southern corner of 426 Firmin Street. EFI Global indicated the anomaly was close to historic oil well H. Rogalske 3, shown on DOGGR maps to be located on an east-adjacent property, and inferred the anomaly might represent the historic oil well. No other anomalies were identified on the property. EFI Global cautioned that the presence of structures, reinforced concrete, and metal fences at 418 and 430 Firmin Street might interfere with the geophysical readings to mask potential anomalies. Except for H. Rogalske well 1-1, no online records are available for the wells and DOGGR lists the well statuses as buried-idle.

Borings B1 through B6 were advanced to depths of 15 to 25 feet below the ground surface to evaluate the potential impact from historic oil field operations. The borings were advanced at locations assumed to be in proximity to the on-site and off-site historic oil wells. Field evidence of petroleum contaminants, including photoionization detector (PID) readings, noticeable petroleum odors, and gray discolored soil was noted in boring B2 between 2 and 25 feet below grade, boring B3 between 10 and 20 feet below grade, and boring B4 between 10 and 15 feet below the ground surface. These borings were advanced along the southeastern property line of the site. No field evidence of petroleum

hydrocarbon impact was noted in borings B1, B5, and B6, which were advanced in the central and northwestern areas of the site.

Eight soil samples collected from the borings at various depths of 2, 5, 10, 15, 20 and 25 feet below the ground surface were analyzed for total petroleum hydrocarbons carbon chain and the 17 metals and metalloids identified as inorganic persistent and bioaccumulative toxic substances in Title 22 of the California Code of Regulations (i.e., Title 22 metals). One soil sample, collected at a depth of 2 feet below the ground surface in boring B2, was also analyzed for volatile organic compounds (VOCs); this sample contained the highest field PID reading.

Laboratory analytical results indicated total petroleum hydrocarbons in the gasoline, diesel, and motor oil ranges were detected in all soil samples, except the soil sample collected at 5 feet below the ground surface in northern boring B6. Detected concentrations ranged from 14 to 11,500 milligrams per kilogram (mg/kg). EFI Global compared these concentrations to Los Angeles Regional Water Quality Control Board (LARQWCB) maximum soil screening levels, which were developed to assess the potential for migration of contaminants in soil to the ground water. A number of the total petroleum hydrocarbon concentrations were greater than the corresponding maximum soil screening levels, based on an assumed depth to ground water of 30 to 40 feet below the ground surface. Laboratory analytical results showed several petroleum-hydrocarbon-related VOCs in the 2-foot-depth sample collected from boring B2 with benzene and ethylbenzene reportedly detected at concentrations greater than corresponding screening levels for direct exposure to soil. The laboratory analytical results for total petroleum hydrocarbons and VOCs in soil samples collected by EFI Global can be found in Appendix G. Benzene and ethylbenzene concentrations detected in boring B2 are less than direct exposure screening levels.

The results of analyses of soil samples for the Title 22 metals showed that, except for arsenic and chromium, none of the metals/metalloids were found at concentrations greater than California Department of Toxic Substances Control (DTSC) or United States Environmental Protection Agency (USEPA) screening levels for direct exposure to soil. Arsenic concentrations were compared to a DTSC-developed naturally occurring (i.e., background) concentration for southern California of 12 mg/kg. Only one soil sample, collected at a depth of 20 feet in boring B3, contained arsenic at a concentration slightly greater than this background level. Chromium concentrations were compared to and found to be well below a background concentration developed by the U.S. Air Force. The laboratory analytical results for the Title 22 metals in soil samples collected by EFI Global can be found in Appendix G.

EFI Global concluded that the Title 22 metals (including arsenic and chromium) detected in the soil samples were at concentrations that were not of concern with respect to risk to

human health; that a potential threat to ground water from the concentrations of total petroleum hydrocarbons in the soil samples could not be ruled out; and that potential human health risk from exposure to the benzene and ethylbenzene in the shallow soil could not be ruled out. EFI Global recommended that the oil well identified during the investigation and other oil wells identified during future site development be abandoned according to state and local guidelines; that additional soil sampling be performed to further characterize the detected petroleum hydrocarbons and VOCs; that ground-water sampling be performed to assess whether shallow ground water has been impacted; and that soil vapor sampling be performed to assess potential vapor intrusion risk.

2017 Geologic and Geotechnical Engineering Investigation

GeoConcepts, Inc. (2017) performed a geologic and geotechnical engineering investigation at the site in November 2017, which involved excavating 14 test pits and drilling a boring at 426 Firmin Street to a depth of 40 feet below the ground surface. Sediments encountered in the test pits were described as artificial fill (silty clay with sand; clayey silt with sand; sand) from the ground surface to a maximum depth of 2½ feet below the ground surface; native soil (silty clay), which was generally observed at depths as shallow as 1 foot to as deep as 6½ feet below grade; and bedrock (sandstone and shale), which was encountered as shallow as 2½ feet below the ground surface in test pits to the maximum 40 foot-depth explored in the boring.

2018 Subsurface Environmental Investigations

Essel performed a subsurface environmental investigation in April 2018 in response to the findings of the Phase I, Phase II, and Geotechnical Investigation that included advancing four borings at the site and collecting soil and soil vapor samples for laboratory analyses. Boring EE-1 was advanced at the northwestern corner of 426 Firmin Street near the inferred location of the well H. Rogalske 2A; boring EE-2 was advanced in the east-central portion of 426 Firmin Street near the inferred location of well H. Rogalske 3; and boring EE-3 was advanced at the southeastern corner of 418 Firmin Street near EFI Global, Inc.'s boring B2 and the inferred location of well H. Rogalske 1-1. The borings were advanced to depths of 24 to 28 feet below the ground surface and, after collecting soil samples for laboratory analyses, soil vapor probes were installed in the borings variously at depths of 7, 10, and 20 feet below the ground surface. Essel also advanced a boring (EESV-1) at the southeastern corner of 426 Firmin Street to a depth of 20 feet below grade and installed soil vapor probes (EESV-1) in the borehole at depths of 10 and 20 feet below grade. Plate 2 shows the locations of EE-1 through EE-3 and EESV-1.

In boring EE-3, wood, plastic, and a void were encountered between 3 and 8 feet and oil, oily sludge, and oil-saturated soil were encountered between 8 and 15 feet below the

ground surface. The materials encountered in this boring suggested a buried “oil pit” is present at this location.

Two soil samples were collected from borings EE-1 through EE-3 at various depths of 7, 10, 18½, 19, and 19½ feet below the ground surface and were analyzed for total petroleum hydrocarbons (TPH) in the gasoline, diesel, and motor oil ranges and for VOCs. Laboratory analytical results showed very low (13 mg/kg diesel) or no detectable TPH in soil from boring EE-1, located near the northwestern corner of 426 Firmin Street and well H. Rogalske 2A. No TPH was detected in soil at 7 feet below grade and moderate concentrations of diesel and motor oil (330 and 260 mg/kg, respectively) were detected at 19½ feet below grade in boring EE-2, located in the southeastern portion of 426 Firmin Street near EFI Global’s inferred location of well H. Rogalske 3. Relatively elevated concentrations of diesel (1,300 and 900 mg/kg) and motor oil (870 and 1,900 mg/kg) were detected, respectively at 10 and 19 feet below the ground surface in boring EE-3, located near the southeastern corner of 418 Firmin Street and near well H. Rogalske 1-1.

Soil vapor samples collected from vapor probes installed in borings EE-1 through EE-3 and EESV-1 were analyzed for gasoline petroleum hydrocarbons, volatile organic compounds, and methane. No gasoline petroleum hydrocarbons were detected in soil vapor samples collected at the location of EE-1, near the inferred location of H. Rogalske well 2A; moderate concentrations (1,900 to 17,800 micrograms per cubic meter [µg/m3]) of gasoline petroleum hydrocarbons were detected in vapor samples collected at the locations of EE-2 and EESV-1 near the inferred location of H. Rogalske 3; and a relatively high concentration of gasoline petroleum hydrocarbons (116,000 µg/m3) was detected in the soil vapor sample at the 7-foot depth at the location of boring EE-3 where the void, oil, and oily sludge were encountered. Several VOCs were sporadically detected in six of the seven vapor samples at concentrations ranging from 41 to 63,000 µg/m3. Detected analytes included the petroleum-related hydrocarbon compounds carbon disulfide, cyclohexane, hexane, toluene, and xylenes and the chlorinated hydrocarbon trichloroethene. None of the detected VOCs were greater than the corresponding human-health-risk-based vapor intrusion screening levels for a residential property. Methane was detected at trace to low concentrations (0.95 to 110 parts per million by volume [ppmv]) in the vapor samples. These concentrations are well below the DTSC’s “action level” of 5,000 ppmv, which the DTSC considers a methane hazard if present beneath a building.

Essel concluded 1) the petroleum hydrocarbons detected in the subsurface suggested the source(s) of the contaminants were the former oil field exploration and production activities, 2) boring EE-3 was advanced through an abandoned pit possibly used to contain petroleum-related wastes generated during historic oil field operations, 3) diesel range petroleum hydrocarbons in soil were at concentrations that might present a human health risk from direct contact, and 4) soil vapor data did not suggest that a vapor intrusion health risk from VOCs or an explosion hazard from methane were present at the site.

Essel recommended that a Site Management Plan be prepared to address health and safety, characterization of soil, oil, and oily sludge to be removed from the site, dust and vapor control, and air monitoring, as necessary. Essel also recommended delineation of the extent of the "oil pit" encountered in boring EE-3 and proper abandonment of historic oil wells (per state and local requirements) that might be encountered during site development. Essel further indicated that incorporation of methane or other VOC vapor intrusion mitigation measures into the design and construction of the new residential building may be warranted or desired.

Soil

The results of the subsurface environmental investigations performed by EFI Global (2017b) and Essel (2018) indicated that diesel- and motor-oil-range petroleum hydrocarbons have impacted soil in the southeastern and southern portions of the site. Relatively elevated concentrations (between 870 and 11,500 mg/kg) were found in EFI Global borings B2, B3, and B4 and Essel boring EE-3 at depths as shallow as 2 feet to as deep as 25 feet below the ground surface. Notably lower levels or no detectable concentrations of diesel- and motor-oil-range petroleum hydrocarbons were found in borings B1, B5, B6, EE-1, and EE-2, which were advanced in the central, northern, and western portions of the site. Low concentrations of gasoline-range petroleum hydrocarbons and VOCs were only sporadically detected in soil samples. Based on these data, the lateral extent of petroleum-impacted soil is generally defined to underlie the southeastern portion of the site. The vertical extent of petroleum-impacted soil in this area extends to a depth greater than 25 feet and was not defined.

Soil Vapor

Relatively low concentrations of gasoline-range petroleum hydrocarbons, VOCs, and methane were detected in soil vapor samples collected at the site. The highest concentrations of these volatile compounds were detected in vapor probe EE3-SV7 located near the southeastern corner of 418 Firmin Street. Lower concentrations were detected in vapor samples collected from vapor probes in borings EE-2 and EESV-1 located in the eastern portion of 426 Firmin Street. Trace concentrations to no detectable concentrations of these contaminants were found in vapor samples collected from boring EE-1 located near the western edge of 426 Firmin Street.

Results of Investigation

Geology and Ground Water

Sediments encountered in the nine borings to the total depth explored of 52 feet below the ground surface were observed to be silty clay soil overlying moderately to highly weathered claystone that transitions downward to slightly weathered and unweathered

claystone/siltstone. Silty clay soil was encountered in borings from the ground surface to depths of 3 to 6 feet below grade. This soil was noted to contain minor sand and gravel, be dusky brown, dusky yellowish-brown, or brownish black in color, and be of hard consistency.

The top of the transition zone of moderately to highly weathered bedrock was noted at depths of 3 to 6 feet below grade by color changes from dusky brown to light olive gray, dusky yellow green, greenish gray, and dark greenish gray. Silty clay soil in this zone was observed in cores to be variably colored (greenish gray, black, grayish black, gray, yellowish brown, pale orange, bluish gray) and mottled or variegated. Alternating lighter (gray, light olive gray, pale yellowish-brown to dark yellowish-brown) silt and darker (greenish gray, dark greenish-gray) clay laminae were present in some cores and silt, silty sand, and sand lenses varying from 1 to 6 inches thick were observed occasionally. Laminar bedding was noted as shallow as 5 feet below the ground surface. White and pale orange weathering deposits were observed as specks, patches, and bands and dark yellowish-orange and moderate reddish-brown staining was observed in bands, as patches, and irregularly disseminated through the cores to maximum depths of 10 to 17 feet below the ground surface.

Slightly weathered to unweathered bedrock was observed in cores collected at depths greater than 15 to 17 feet. Yerkes and Campbell (2005) identify the bedrock underlying the site as siltstone of the Puente Formation. The late Miocene to early Pliocene-age Puente Formation consists of siltstone, sandstone, and shale, which were deposited in a marine environment. The youngest unit (early Pliocene age) of the formation is the siltstone member, which is described as well-bedded and light gray. In sediment cores collected at depths greater than 15 to 17 feet below grade, the bedrock appears to be principally claystone with interbedded silt laminae and some silt lenses. Individual gravel clasts were observed on occasion. Laminar bedding, consisting of alternating clay and silt laminae was observed at various depths in a number of cores. The claystone is dark greenish-gray, greenish gray, olive gray, olive black, and dusky brown, is of medium to high plasticity, and in places, was noted to be slightly to moderately indurated. The silt lenses and laminae are light olive gray, medium light gray, yellowish gray, and dark yellowish-brown and exhibited low plasticity or no plasticity. Almost no weathering features, such as deposits or staining, were observed in the cores collected at depths of 20 feet and greater.

Ground water was not encountered in borings EE-4 through EE-12 to the maximum depth explored of 52 feet below the ground surface. Ground water was not encountered in previous borings advanced by Essel (maximum depth of 28 feet below the ground surface), EFI Global (maximum depth of 25 feet below the ground surface), or GeoConcepts, Inc. (depth of 40 feet below the ground surface).

Information on the depth to first ground water is not readily available for the site vicinity. Records available from the California DOGGR for an oil well (Dividend 15) recently abandoned at an adjacent property (411 North Boylston Street) indicate the base of the fresh ground-water zone is approximately 150 feet below the ground surface. The depth to the top of the fresh water zone is not indicated in the well abandonment record. Online maps available from the California Department of Water Resources (2018) indicate that the site and vicinity are outside the boundary of a ground-water basin, suggesting no useable ground water underlies the site.

Field Evidence of Contaminants

Field evidence of petroleum hydrocarbons during the current investigation included detectable organic vapor readings and noticeable petroleum odor. Relatively low organic vapor concentrations (0.1 to 57.6 parts per million by volume [ppmv]) were detected; however, detectable concentrations were present in nearly every core retrieved from the nine borings. The highest concentrations, in general, were present in borings EE-8 and EE-11, located near the southeastern corner of the site (418 Firmin Street) in the vicinity of the "oil pit" encountered in boring EE-3 and plugged and abandoned oil well H. Rogalske 1-1. Petroleum odor, varying in strength from very slight to moderate, was also noted in most cores retrieved and was consistently noticeable in the slightly weathered to unweathered bedrock encountered below the 15- to 17-foot depth in the nine borings. The logs of borings in Appendix C of the Essel Additional Subsurface Investigation (see Appendix G to this document) present the organic vapor concentrations detected and the petroleum odors noticed in cores retrieved from borings EE-4 through EE-12.

During previous investigations, Essel found relatively higher (90 to 370 ppmv) organic vapor concentrations in borings EE-2, EE-3, and EESV-1, advanced in the southeastern portion of the site. These higher concentrations were generally detected in soil at depths below the ground surface of 15 feet or greater. EFI Global (2017) also found relatively elevated organic vapor concentrations in boring B2 (170 to greater than 5,000 ppmv), advanced within a few feet of borings EE-3, EE-8, and EE-11; and boring B3 (115 to 238 ppmv), advanced near the eastern edge of 426 Firmin Street. These higher vapor concentrations were detected in cores collected at and below the 10-foot depth. EFI Global also reported gray discolored soil observed in cores retrieved from borings B2, B3, and B4 as evidence of contaminants.

No field evidence of significant petroleum hydrocarbon contaminants was noted in EFI Global borings B1, B5, and B6, which were advanced in the central area of 426 Firmin Street and at 430 Firmin Street. No field evidence of significant petroleum hydrocarbon contaminants was found in Essel boring EE-1, advanced near the western edge of 426 Firmin Street.

Laboratory Analytical Results

Soil/Bedrock

Essel submitted four to eight soil samples from each boring for laboratory analysis for petroleum hydrocarbons in the gasoline, diesel, and motor oil ranges and for VOCs. A greater number of samples were submitted to more closely delineate the extent of petroleum impact identified during previous investigations.

Total Petroleum Hydrocarbons - 426 Firmin Street

Borings EE-4 through EE-7 were drilled at locations in the southeastern portion of 426 Firmin Street to a depth of 52 feet below the ground surface. Results of analyses of soil and bedrock samples show low concentrations (11 to 87 mg/kg) of gasoline-range petroleum hydrocarbons in samples collected generally at depths of 15 feet and greater. Gasoline-range petroleum hydrocarbons were not detected in samples from the 5- and 10-foot depths in borings EE-5 and EE-7; the 5-, 10, and 15-foot depths in boring EE-4; and the 5-, 10-, 15-, and 20-foot depths in boring EE-6.

Petroleum hydrocarbons in the diesel and motor oil ranges were the dominant compounds detected in samples, with concentrations in the motor oil range consistently greater than concentrations in the diesel range. Either no detectable concentrations or low (less than 100 mg/kg) to moderate (100 to 640 mg/kg) concentrations were found in samples from the 5- and 10-foot depths in the four borings. Except in boring EE-6, concentrations greater than 1,000 mg/kg diesel, motor oil, or both were detected in samples collected at depths of 15 feet and greater. Concentrations greater than 1,000 mg/kg were detected in the 30-foot-depth and deeper samples in boring EE-6. The highest concentrations of the two ranges of petroleum hydrocarbons were found at the 50-foot depth in borings EE-4 and EE-5, the 30-foot depth in boring EE-6, and the 45-foot depth in boring EE-7. Two of the four highest motor oil concentrations were greater than 10,000 mg/kg.

Total Petroleum Hydrocarbons - 418 Firmin Street

Borings EE-9 and EE-10 were advanced to a total depth of 20 feet and borings EE-8, EE-11, and EE-12 were drilled to a total depth of 52 feet below the ground surface at locations in the southeastern portion of 418 Firmin Street. Higher concentrations of gasoline-range petroleum hydrocarbons were found in samples collected at 418 Firmin Street than in samples collected at 426 Firmin Street. The highest concentrations of 1,200 and 2,400 mg/kg were detected at 21½ and 30 feet below grade in boring EE-8, which was drilled between the “oil pit” and the inferred location of well H. Rogalske 1-1. In this boring, concentrations increased from 32 mg/kg at 10 feet below grade to the maximum 2,400 mg/kg at 30 feet below grade, then decreased to 550 and 320 mg/kg respectively in

samples collected at 41½ and 51½ feet below the ground surface. Low to moderate concentrations of 66 to 450 mg/kg were detected at 10 feet, 15 feet, and the 20-foot total depth of borings EE-9 and EE-10 and at 16½ and 26½ feet below grade at boring EE-11. No gasoline range petroleum hydrocarbons were detected at the 5-foot depth in borings EE-8 through EE-11 or below the 26½-foot depth in boring EE-11. Boring EE-12 was advanced at the northern edge of 418 Firmin Street. Gasoline range petroleum hydrocarbons were not detected between 5 and 40 feet below grade and were detected at 310 mg/kg at 51½ feet below grade.

As at 426 Firmin Street, petroleum hydrocarbons in the diesel and motor oil ranges were generally more dominant in samples than the gasoline-range hydrocarbons, particularly in samples collected at depths greater than 15 feet. The most frequent elevated concentrations were detected in boring EE-8 with levels greater than 1,000 mg/kg in all samples collected below the 20-foot depth and motor oil concentrations greater than 10,000 mg/kg in samples collected at depths of 30 feet and greater. Concentrations greater than 1,000 mg/kg diesel, motor oil, or both were also found at 15 feet in boring EE-10, 19½ feet in boring EE-9, and 26½ feet below grade in boring EE-11. At each of these borings, diesel and motor oil petroleum hydrocarbons were not detected in samples collected at 5 feet below the ground surface. No diesel or motor oil petroleum hydrocarbons were detected in samples collected at 5 and 10 feet below grade in boring EE-12. Low to moderate concentrations were detected in this boring at 15, 30, and 40 feet below grade, and high concentrations were detected at the 51½-foot depth in boring EE-12. The latter concentrations of 11,000 mg/kg diesel and 18,000 mg/kg motor oil are the highest concentrations detected during the current investigation.

Volatile Organic Compounds

Twenty-one of the 52 soil samples collected from borings EE-4 through EE-12 were also analyzed for VOCs and, consistent with previous results, very low concentrations of petroleum-related volatile constituents were sporadically detected in the samples. The detected compounds variously included benzene, toluene, ethylbenzene, naphthalene, sec-butylbenzene, tertbutylbenzene, isopropyl benzene, and n-propyl benzene. The highest concentrations and number of compounds detected were present in samples collected from boring EE-8 (418 Firmin Street).

Environmental Screening Levels

Concentrations of VOCs detected in the soil and bedrock samples were compared to available human-health risk-based screening levels for direct exposure developed by the DTSC and USEPA. Concentrations of the three ranges of petroleum hydrocarbons were compared to environmental screening levels (ESLs) for health risk from direct exposure (the three ranges of petroleum hydrocarbons) and for nuisance odors (gasoline- and

diesel-range petroleum hydrocarbons) developed by the San Francisco Bay Regional Water Quality Control Board (2016).

A large number of soil and bedrock samples from borings EE-4 through EE-12 contained gasoline- and diesel-range petroleum hydrocarbon concentrations greater than the corresponding ESLs for direct exposure, nuisance odors, or both. These exceedances; however, were predominantly in samples collected at depths of 15 feet and greater below the ground surface. Concentrations of motor-oil-range petroleum hydrocarbons were greater than the corresponding direct-exposure ESL in samples collected at depths of 30 to 50 feet below grade. None of the VOCs detected in the soil and bedrock samples were at concentrations greater than the corresponding DTSC or USEPA screening levels.

Soil Vapor

Soil vapor samples were collected at a depth of 6½ feet below the ground surface in the soil vapor probes installed in borings EESV-2, EESV-3, and EESV-4. These vapor probes were installed at 426, 430, and 418 Firmin Street, respectively. The three soil vapor samples collected were analyzed for gasoline-range petroleum hydrocarbons, VOCs, and methane. The results of laboratory analyses show detectable concentrations of the leak-check tracer gas 1,1-difluorethane, varying from 1,300 to 6,500 micrograms per cubic meter (µg/m3). The detected concentrations indicate some leakage in the sampling equipment; however, the concentrations detected are not expected to significantly affect the sample results.

The presence of high concentrations of one or more compounds in samples requires the samples be diluted before analysis, which results in higher reporting limits (RLs). The reporting limit is the lowest concentration at which a compound is detected with a 100 percent confidence in the concentration and target compounds at concentrations below the RL would be reported as nondetect. The method detection limit (MDL) is the lowest concentration at which a compound can be detected and is associated with a 95 percent confidence that the compound is present in the sample. Compounds detected at levels greater than the MDL and less than the RL are reported as estimated concentrations. The laboratory analytical report for the soil vapor sample collected from vapor probe EESV-4 includes higher RLs for gasoline-range petroleum hydrocarbons and VOCs because of the elevated concentration of the gasoline-range organics in this sample. Essel; therefore, requested that the laboratory also include the MDLs associated with each compound so potential compounds at lower concentrations would be reported.

Gasoline-Range Petroleum Hydrocarbons

The results of laboratory analyses show gasoline-range petroleum hydrocarbons were not detected in samples collected from soil vapor probes EESV-2 and EESV-3, installed at 426 and 430 Firmin Street, respectively. A very high concentration of 6,750,000 µg/m3

gasoline-range petroleum hydrocarbons was detected in soil vapor probe EESV-4, installed at 418 Firmin Street in the vicinity of the “oil pit” and historic oil well H. Rogalske 1-1.

The USEPA and the DTSC have not established screening levels for gasoline-range petroleum hydrocarbons in soil vapor or indoor air to evaluate human health risk associated with vapor intrusion. The San Francisco Bay Regional Water Quality Control Board (2016); however, has developed ESLs for gasoline-range petroleum hydrocarbons to assess the soil vapor to indoor air exposure pathway. For residential properties, the most stringent ESL for gasoline-range petroleum hydrocarbons, based on nuisance odors, is 50,000 µg/m3; whereas, the residential ESL for gasoline-range petroleum hydrocarbons based on human health risk from direct exposure is 300,000 µg/m3. The concentration of gasoline-range petroleum hydrocarbons in soil vapor probe EESV-4, located at 418 Firmin Street is greater than both the nuisance odor ESL and the health-risk-based ESL. The concentration of gasoline-range petroleum hydrocarbons in previous vapor probe EE3-SV7, located directly above the petroleum product in the oil pit at 418 Firmin Street, was greater than the nuisance odor ESL, but well below the health-risk-based ESL. Concentrations of gasoline-range petroleum hydrocarbons in other vapor samples collected in April and October 2018 were well below 50,000 µg/m3 and; therefore, also well below the health-risk-based ESL.

Volatile Organic Compounds

Several VOCs were sporadically detected in soil vapor samples collected from EESV-2, EESV-3, and EESV-4 at concentrations ranging from 2.8 (estimated concentration) to 890 µg/m3. Detected analytes included the petroleum-related hydrocarbon compounds benzene, m,p-xylene, and heptane. The solvents acetone, chloroform, and isopropyl alcohol (not used as a tracer), and vinyl acetate, used in the production of coatings (paint, film packaging, resins, paper coatings) and additives to cement and adhesives, were also detected in the soil vapor samples.

The DTSC (2018) and the USEPA (2017) have published human-health-risk indoor air screening levels for a number of volatile compounds and these screening levels may be compared to soil vapor concentrations using an attenuation factor for vapor migration through building foundations. For a future residential building at a site, the DTSC (2011) uses an attenuation factor of 0.001. Indoor air screening levels are multiplied by 1,000 and the resulting levels are compared to concentrations detected in the soil vapor. Based on the 0.001 attenuation factor, none of the VOCs detected in the soil vapor samples collected in April and October 2018 were greater than the corresponding screening levels for a residential property.

Methane

No methane was detected in the soil vapor sample collected from EESV-3 installed at 430 Firmin Street. A moderate methane concentration of 1,600 ppmv was detected in the sample from soil vapor probe EESV-2 installed in the east-central portion of 426 Firmin Street. A very high concentration of 490,000 ppmv methane was detected in the sample from soil vapor probe EESV-4 installed at 418 Firmin Street in proximity to the “oil pit” and well H. Rogalske 1-1.

Methane was detected in the seven soil-vapor samples collected in April 2018 (Essel, 2018), but at trace to low concentrations ranging from less than 1 ppmv to 110 ppmv. The lowest concentrations of 0.95 and 5.7 ppmv were found in the shallower and deeper vapor samples collected from northwestern boring EE-1 (426 Firmin Street). Methane was detected from 56 to 99 ppmv in vapor samples from borings EE-2 and EESV-1, located in the southeastern portion of 426 Firmin Street, and was detected at 110 ppmv in the vapor sample from southern boring EE-3 (418 Firmin Street) in which petroleum product was encountered.

The DTSC (2005) defines a methane hazard as an accumulation or potential accumulation of methane beneath a structure at concentrations greater than 5,000 ppmv. A methane concentration of 5,000 ppmv or greater is considered to be an action level where some mitigative measure should be implemented to avoid a potential for an explosion hazard. The concentrations of methane detected in EESV-2 and EESV-3 and previously sampled vapor probes (installed in borings EE-1, EE-2, EE-3, and EESV-1) are well below this action level. The concentration of methane detected in EESV-4 is well above the action level.

The site is located within a methane zone as delineated by the City of Los Angeles Department of Public Works (2004). City of Los Angeles Ordinance No. 175790 (effective March 29, 2004) states that buildings located in a methane zone shall provide a methane mitigation system in accordance with test data and criteria presented in the ordinance. Mitigation system design levels are based on ranges of methane concentrations with Levels I through V corresponding to respective concentrations of 0-100, 101-1,000, 1,001-5,000, 5001-12,500, and greater than 12,500 ppmv. Based on the methane concentration detected at EESV-4, a Level V mitigation system would be required for the future site building.

Oil Pit

At boring EE-3, located at the southern corner of 418 Firmin Street, Essel (2018) reported encountering wood and plastic at 3 feet below grade, a void between 3 and 8 feet below grade, and oil, oily sludge, and oil-saturated soil between 8 and 15 feet below the ground surface. Essel advanced borings EE-8, EE-9, and EE-10 at locations from 5 to 10 feet to

the southeast, northwest, and north of boring EE-3 to attempt to delineate the dimensions of the inferred "oil pit". No oil, oily sludge, or oil saturated soil were encountered in the three borings suggesting the pit is of restricted lateral extent. In 2017, EFI Global advanced boring B2 at a location approximately 5 feet east of boring EE-3. No oil, oily sludge, or oil saturated soil were encountered in this boring; however, EFI Global reported strong hydrocarbon odors and gray discolored soil in samples collected between 2 feet and the 25-foot total depth of the boring. The data suggest boring B2 was advanced very close to the "oil pit". Plates 2, 3, and 4 (Cross Section A-A') identify the approximate location of the "oil pit".

Findings, Conclusions, and Recommendations

Findings

The following is a summary of the findings of the Essel subsurface environmental investigation and review of the previously prepared Phase I, Phase II, and Geotechnical Investigation.

- A geophysical survey was performed in the open areas of the site to attempt to identify the locations of potential historic oil wells.
    - At 418 Firmin Street, one high-amplitude magnetic peak and a positive monopole anomaly in the total magnetic field were detected beneath the driveway next to the detached garage and near the DOGGR-plotted location of historic oil well H. Rogalske 1-1. The high-amplitude magnetic peak is inferred to be a buried metallic pipe passing through the location. The positive monopole is suggestive of a vertical feature, such as a well, but the monopole was not as broad as would be expected if several hundred feet of metal casing were present.
    - At 426 Firmin Street, two low-amplitude positive anomalies, indicative of small buried metal objects, were identified in the western and central portions of the parcel. The western anomaly is in the vicinity of the DOGGR-plotted location of well H. Rogalske 2A. Neither anomaly suggests the presence of several hundred feet of buried oil well casing.
    - At 430 Firmin Street, a suspected broad monopolar high magnetic reading was detected in the backyard to the northeast of the detached garage. Potential sources for this anomaly are a metal pipe, metal in the adjacent garage, or an oil well; however, a gap in the data prevented determining if the anomaly was a true magnetic monopole indicative of an oil well. The closest DOGGR-plotted historic oil well is H. Harrison 1, located off-site to the east.

  - The absence of robust magnetic monopolar anomalies does not preclude the potential presence of wells at the site. Aboveground and belowground ferrous-containing objects may distort or interfere with magnetic field measurements. In addition, the wells might not be detected if the metal surface casing is thinner (e.g., stove pipe) and buried too deep or is significantly corroded.

- Nine borings (EE-4 through EE-12) were advanced or drilled to depths of 20 to 52 feet below the ground surface at locations across the eastern portions of 418 and 426 Firmin Street. Sediments encountered in the nine borings to the maximum depth explored were observed to be dark brown silty clay soil from the ground surface to depths of 3 to 6 feet below grade; a zone consisting of moderately to highly weathered, olive gray, greenish gray, and grayish black silty clay/claystone from the base of the silty clay to depths of 10 to 17 feet below grade; and slightly weathered and unweathered, olive gray to dark greenish-gray claystone/siltstone generally at depths of 15 feet and greater below the ground surface.

- Ground water was not encountered in borings drilled/advanced during the current or previous investigations to the maximum depth explored of 52 feet. Information on the depth to first ground water in the site vicinity is not available; however, oil-well abandonment records on an adjacent property indicate the base of the fresh ground-water zone is approximately 150 feet below the ground surface. Furthermore, the site does not overlie a ground water basin as designated by the California Department of Water Resources, suggesting no useable ground water underlies the site.

- A total of 52 soil/bedrock samples, collected at depth intervals of 5, 10, or 15 feet in borings EE-4 through EE-12, were analyzed for gasoline-, diesel-, and motor-oil-range petroleum hydrocarbons.

  - At 426 Firmin Street (borings EE-4 through EE-7) gasoline-range petroleum hydrocarbons were generally not detected from the ground surface to 15 feet below grade and were present at low concentrations (11 to 87 milligrams per kilogram [mg/kg]) in samples collected at depths of 15 feet and greater. Diesel- and motor-oil petroleum hydrocarbons were the dominant compounds detected in samples. Either no detectable concentrations or low (less than 100 mg/kg) to moderate (100 to 640 mg/kg) diesel and motor oil concentrations were found in shallow depth samples (5 and 10 feet below grade). In three of the borings, diesel, motor oil, or both diesel and motor oil concentrations were greater than 1,000 mg/kg at and below the 15-foot depth. In boring EE-6, these elevated diesel and motor oil concentrations were detected in samples collected at depths of 30 feet and

greater. The highest concentrations of the diesel- and motor-oil-range petroleum hydrocarbons were found in samples collected at 30, 45, and 50 feet below the ground surface.

  - At 418 Firmin Street (borings EE-8 through EE-12), detected petroleum hydrocarbons were also dominantly in the diesel and motor oil ranges, although higher concentrations of gasoline-range petroleum hydrocarbons (32 to 2,400 mg/kg) were found in the five borings than were detected in borings at 426 Firmin Street. The consistently highest concentrations were detected in samples collected from boring EE-8, located closest to the "oil pit" and the presumed location of well H. Rogalske 1-1. Generally lower concentrations were detected in samples collected from more distant borings EE-9 through EE-12. Trends of increasing followed by decreasing concentrations of gasoline petroleum hydrocarbon concentration are present with increasing depth. Generally increasing concentrations of diesel and motor oil petroleum hydrocarbons are present with increasing depth. The highest diesel and motor oil concentrations were detected at the total depths (20 and 52 feet below the ground surface) of the five borings.

  - A number of samples contained gasoline-, diesel-, or motor-oil-range petroleum hydrocarbons at concentrations greater than corresponding direct-exposure or nuisance odors environmental screening levels; however, these samples were predominantly collected at depths of 15 feet or greater below the ground surface.

- Twenty-one of the 52 soil/bedrock samples were also analyzed for volatile organic compounds (VOCs). Consistent with results reported during previous investigations, very low concentrations of petroleum-related volatile constituents were sporadically detected in the samples. The highest concentrations and number of compounds detected were present in samples collected from boring EE-8. None of the detected VOCs were at concentrations greater than corresponding human-health risk screening levels.

- Soil vapor probes EESV-2, EESV-3, and EESV-4 were installed to a depth of 7 feet below the ground surface in the east-central portions of 426, 430, and 418 Firmin Street, respectively. Soil vapor samples collected from the probes were analyzed for gasoline-range petroleum hydrocarbons, VOCs, and methane.

  - Gasoline-range petroleum hydrocarbons were not detected in samples collected from EESV-2 and EESV-3. A very high concentration of 6,750,000 micrograms per cubic meter (µg/m3) gasoline-range petroleum hydrocarbons was detected in the sample from EESV-4. Vapor probe

EESV-4 was installed in the vicinity of the "oil pit" and historic oil well H. Rogalske 1-1.

  - Several VOCs were sporadically detected in the three samples at concentrations ranging from 2.8 (estimated concentration) to 890 µg/m3. Detected analytes included the petroleum-related hydrocarbon compounds benzene, m,p-xylene, and heptane; the solvents acetone, chloroform, and isopropyl alcohol, and vinyl acetate, used in the production of coatings (paint, film packaging, resins, paper coatings) and additives to cement and adhesives.

  - Methane was not detected at EESV-3 (430 Firmin Street), was detected at a concentration of 1,600 parts per million by volume (ppmv) at EESV-2 (426 Firmin Street), and was detected at a concentration of 490,000 ppmv at EESV-4.

  - The concentrations of gasoline-range petroleum hydrocarbons and methane in soil vapor probe EESV-4 are greater than the screening level for vapor intrusion health risk and action level for explosion hazard, respectively. None of the other contaminant vapor concentrations detected during the current and previous investigations were above applicable vapor intrusion screening levels or the explosion hazard action level.

- Borings EE-8, EE-9, and EE-10 were drilled/advanced at locations from 5 to 10 feet to the southeast, northwest, and north of boring EE-3 to delineate the dimensions of the inferred "oil pit" encountered in boring EE-3 in April 2018. No oil, oily sludge, or oil saturated soil were encountered in the three borings. No oil, oily sludge, or oil saturated soil were encountered in EFI Global boring B2 advanced at a location approximately 5 feet east of boring EE-3, although strong hydrocarbon odor and gray discolored soil were encountered. Data collected from these borings suggest the "oil pit" is of restricted lateral extent within the area defined by the four borings.

Conclusions and Recommendations

Following are conclusions drawn from the findings of the investigations conducted by Essel.

- Historic oil well H. Rogalske 1-1 is likely located near the southeastern corner of the site beneath the driveway and near the detached garage at 418 Firmin Street. Lines of evidence supporting this conclusion include the available DOGGR records for the well, the presence of the "oil pit" beneath the driveway (boring EE-3), the presence of a magnetic anomaly adjacent to boring EE-3, and the detection of very

high levels of gasoline-range petroleum hydrocarbons and methane in soil vapor at nearby EESV-4.

- The presence and location of historic oil well H. Rogalske 2A in the northwestern corner of 426 Firmin Street is less certain. Historic maps available at DOGGR show the well in this area of the site and a weak magnetic anomaly was found in the immediate vicinity.

- The presence and location of historic oil well H. Rogalske 3 at the southeastern edge of 426 Firmin Street is uncertain. An electromagnetic anomaly was identified in this area during a previous geophysical survey; however, DOGGR plots the well location on an adjacent property, and the inferred location is very near a steep slope, which would appear to be a less likely location to place a well.

- Except at 418 Firmin Street, the vertical distribution of diesel- and motor-oil-range petroleum hydrocarbons in soil and bedrock beneath the site is not indicative of historic surface releases. No detectable concentrations to low concentrations are present in shallow soil, elevated and sometimes increasing concentrations are present in deeper soil/bedrock, and the highest concentrations are present at the total depths of some borings. This trend of shallower low concentration to deeper high concentration suggests naturally occurring petroleum is present in the bedrock underlying the site.

- The presence of the “oil pit” at boring EE-3, the elevated petroleum hydrocarbon concentrations detected in shallow soil at nearby boring B2, and the higher diesel and motor oil concentrations in shallower soil at boring EE-8 suggest some impact from surface releases in the vicinity of well H. Rogalske 1-1.

- Human health risk from direct exposure to elevated concentrations of the three ranges of petroleum hydrocarbons would appear to be low as these elevated concentrations are primarily present in the deeper (15 feet and greater below the ground surface) soil and bedrock underlying the site.

- Impact to ground water of potential beneficial use from historic on-site oil field surface releases would appear to be unlikely as deeper subsurface petroleum hydrocarbons detected are likely naturally occurring and a ground-water basin does not underlie the site.

- High concentrations of gasoline-range petroleum hydrocarbons and methane in the shallow soil vapor at probe EESV-4 suggest potential leakage of these gases from well H. Rogalske 1-1. The oil and oily sludge in the “oil pit” might also be contributing to the high vapor concentrations. These elevated concentrations

present a potential vapor intrusion health risk and a potential explosion hazard in the southeastern corner of the site.

- The lateral dimensions of the "oil pit" appear to be small, possibly 10 feet or less in length and width. The depth of the pit is estimated to be 8 feet below grade and the depth of impact from the oil in the pit at approximately 15 feet below grade.

Based on the above conclusions and the understanding that the Applicant plans to redevelop the site with a multi-story residential building, Essel offers the following recommendations for near future actions. These recommendations shall be incorporated as mitigation measures for the Project as outlined below.

Mitigation Measures

MM HAZ-1 The Applicant shall perform exploratory excavation in the three areas of the site where historic oil wells are suspected to be present. Excavation shall be performed in a 20- by 20-foot-square area in the northwestern corner of 426 Firmin Street, a 10- by 20-foot rectangular area along the eastern edge of 426 Firmin Street, and a 15- by 20-foot rectangular area under the driveway and between the house and detached garage at 418 Firmin Street.

MM HAZ-2 The Applicant shall prepare and submit to DOGGR an Application for Construction Site Well Review and Notice(s) of Intention for the three potential historic oil wells at the site.

MM HAZ-3 The Applicant shall prepare a design for a methane mitigation system to be installed beneath the proposed building. The design shall conform to the provisions of City of Los Angeles Ordinance No. 175,790 and applicable methane mitigation standards of the Los Angeles Department of Building and Safety.

MM HAZ-4 The Applicant shall prepare a Site Management Plan for the planned development. This plan shall address health and safety measures; characterization of soil to be disposed off-site; characterization, removal, and disposal of oil and oily waste encountered in boring EE-3; dust and organic vapor control measures; air monitoring as might be required; and contingency measures to be taken if unanticipated subsurface conditions are encountered. Prior to the issuance of a grading permit for the Project, the applicant shall submit the Site Management Plan that has been reviewed and approved by the Los Angeles County Fire Department (LACoFD; regulatory agency), Health and Hazardous Materials Unit to the City of Los Angeles, Department of City Planning, and Department of Building and Safety.

MM HAZ-5 Prior to the issuance of a grading permit for the Project, the applicant shall submit the Soil Remediation Plan that has been reviewed and approved by the Los Angeles County Fire Department, Health and Hazardous Materials Unit to the City of Los Angeles, Department of City Planning and Department of Building and Safety.

MM HAZ-6 The applicant shall abandon any historic oil wells identified at the site during the exploratory excavation according to the permit requirements of DOGGR. Site structures will very likely need to be removed and some grading performed before well abandonment to allow access to the well(s) and room for well drilling and associated equipment.

MM HAZ-7 The applicant shall excavate, remove, and dispose of the oil, oily sludge, and oil saturated soil of the "oil pit" (vicinity of boring EE-3) located at 418 Firmin Street. The applicant shall further characterize the excavated materials, as needed, according to the requirements of the selected disposal facility.

MM HAZ-8 The Applicant shall enroll in the Los Angeles County Fire Department (LACoFD; regulatory agency) Health and Hazardous Materials Unit Voluntary Oversight Program. Prior to enrolling in the Program, the Applicant and its role as Environmental Consultant shall schedule a meeting with the manager of the Site Mitigation Unit (SMU), as required by the LACoFD. Following the meeting, the Applicant shall complete the brief Remedial Action Agreement form. The Agreement form with a check made out to the LACoFD in the amount specified on the form, together with electronic copies of reports documenting previous assessment work performed at the Site (including, but not limited to, Phase I, and Phase II, and any other subsequently prepared environmental documentation) shall be sent to the Applicant, who will have hard copies produced and will submit the check and application per the instructions on the Agreement form to the LACoFD.

During the period of oversight provided by the LACoFD, the LACoFD may require additional sampling and/or monitoring both during and after grading, excavation, as well as after redevelopment activities are complete. If so, when required sampling and/or monitoring tasks have been performed at the intervals and for the duration of time as may be specified by the LACoFD, the Applicant will prepare and submit printed and electronic copies of the requisite report(s) to the regulatory case manager. The LACoFD will review the reports and return them to the Applicant with comments.

When the final reports have been submitted and the LACoFD's comments have been addressed to the satisfaction of the regulatory case manager, the process for case closure can begin. The process will be considered complete when the LACoFD issues a letter to the Applicant stating that the Applicant has fulfilled their obligations and that environmental conditions at that time require no further action. Prior to the issuance of building permits, with the exception of grading permits and permits necessary for site clean-up, the Applicant shall submit this letter to the City of Los Angeles, Department of City Planning to be included in Case Nos. DIR-2018-3691-TOC-SPP-WDI and ENV-2018-3692-SE.

Other regulatory agencies in addition to the LACoFD which can provide guidance and oversight to address potential issues are the Los Angeles Regional Water Quality Control Board (LARWQCB) and the California Department of Toxic Substances Control (DTSC).

Implementation of Mitigation Measures

The Project Applicant has initiated the application process with DOGGR for Construction Site Well Review and Notice. DOGGR has authority over drilling, operation, maintenance, and abandonment of oil, gas, and geothermal wells and associated facilities to prevent damage to human health, property, and natural resources; damages to oil, gas, and geothermal deposits, and damage to underground and surface waters suitable for irrigation or domestic purposes. For the Project, a two-step approval process is necessary for abandoning historic oil wells that might be present on the Project Site. This process includes DOGGR review and approval of a Construction Site Well Review Application and review and approval of a Notice of Intention (to abandon) for each well at the Project Site. The Los Angeles County Fire Department (LACoFD; regulatory agency) indicates they also will issue a permit for well abandonment.

The Construction Site Well Review Application was submitted to DOGGR on January 28, 2019 and DOGGR responded to this application via a March 22, 2019 letter indicating that their records show two known oil or gas wells are located within the Project Site boundary. The letter further states that the wells are not abandoned to current DOGGR standards and that DOGGR expects the wells to be properly abandoned before development of the Project.

Notices of Intention and proposed well abandonment programs for the two wells (H. Rogalske 1-1 and 2A) are in preparation by Essel and will be submitted to DOGGR. Permit applications for the well abandonment will also be submitted concurrently to the LACoFD for review and approval.

Incorporation of mitigation measures HAZ-1 through HAZ-8 would mitigate these potential hazards to a less than significant level in compliance with state and federal requirements.

Threshold Criteria 15192 (g): The project does not have a significant effect on historical resources pursuant to Section 21084.1 of the Public Resources Code.

Section 21084.1 of the Public Resources Code states "…an historical resource is a resource listed in, or determined to be eligible for listing in, the California Register of Historical Resources. Historical resources included in a local register of historical resources, as defined in subdivision (k) of Section 5020.1, or deemed significant pursuant to criteria set forth in subdivision (g) of Section 5024.1, are presumed to be historically or culturally significant for purposes of this section, unless the preponderance of the evidence demonstrates that the resource is not historically or culturally significant. The fact that a resource is not listed in, or determined to be eligible for listing in, the California Register of Historical Resources, not included in a local register of historical resources, or not deemed significant pursuant to criteria set forth in subdivision (g) of Section 5024.1 shall not preclude a lead agency from determining whether the resource may be an historical resource for purposes of this section."

Because the subject properties have buildings greater than 50 years of age, a survey and evaluation of the subject properties was required in order to determine whether the subject properties are "historical resources" pursuant to CEQA, as that term is defined in Section 15064.5 of the CEQA Guidelines[11]. A Historic Resources Assessment Report (Historic Report) has been prepared by Sapphos Environmental in October 2018 for 418, 426, 430 N. Firmin Street, Los Angeles, CA 90026, which is provided as Appendix E to this document. The subject properties were evaluated to determine if they are individually eligible for inclusion in federal, state, or local historical registers or contributors to a potential HPOZ. The review was based on site investigations of the properties; literature review and online research; and an application of federal, state, and local register eligibility criteria. The following analysis is based on the findings of the Historic Report.

The Historic Report identifies that 418 and 430 N. Firmin Street each contain one single-family residence and one detached garage, and 426 N. Firmin Street is vacant. The Historic Report concludes that the main residence and detached garage located at 418 N. Firmin Street have been substantially altered and therefore, are not eligible for listing in federal, state, or local historical registers and are not historical resources pursuant to CEQA. The detached garage located at 430 N. Firmin Street is also not a contributing feature of the property located at 430 N. Firmin Street and is not considered to be a historical resource pursuant to CEQA. Therefore, demolition of the main residence and detached garage located at 418 N. Firmin Street and the detached garage located at 430

[11] *Title 14, Section 15000, of the California Code of Regulations.*

N. Firmin Street would not result in a substantial adverse change to a historical resource as defined in Section 15064.5(b) of the CEQA Guidelines.

On the other hand, the property located at 430 N. Firmin Street is listed as a "Historic Resource" in Appendix A of the CCWSP that was adopted by the City in 1991, though the term "Historic Resource" is unidentified in the CCWSP.[12] In addition, the Historic Report explains that the primary residence located at 430 N. Firmin Street is potentially eligible for the National Register, the California Register, and as an HCM under Criteria A/1/1 (events), as a rare intact residence that reflects the early residential development in the neighborhoods of the City under the SurveyLA Residential Development and Suburbanization/Early Residential Development, 1880–1930 theme. Oil was first discovered in the City in 1892, and the discovery resulted in economic and real estate booms. Early development in the City centered around downtown and suburban expansion radiated outward in all directions. The subject properties are located within the Westlake Community Plan Area (CPA), which is one of the earliest residential suburbs in the history of the City. The primary residence at 430 N. Firmin Street is a modest cottage that represents this early period of suburban expansion which directly resulted from the discovery of oil. Therefore, the primary residence located at 430 N. Firmin Street reflects the patterns of community planning and development during the early suburban development of the City. The period of significance is 1895, the year the building was constructed, which broadly covers the earliest periods of residential development within the present-day boundaries of the City and following the City's incorporation in 1850. Therefore, the primary residence located at 430 N. Firmin Street constitutes a historical resource as defined in Section 15064.5(a) of the CEQA Guidelines.

To mitigate any potential significant effects, the primary residence located at 430 N. Firmin would be relocated to a vacant parcel located at 115 E. Avenue 35, Los Angeles, California (the "receiver site") in accordance with the Secretary of Interior's Standards for the Treatment of Historic Buildings (the "Standards"). The receiver site is located within the Lincoln Heights neighborhood of the Northeast Los Angeles Community Plan Area. The receiver site is located between 107 E. Avenue 35, constructed in 1895, and 121 E. Avenue 35, constructed in 1894, across the street to the north of the Hillside Elementary School and abuts the southern boundary of Heritage Square Park and Museum. Neighboring residences are one-story Victorian cottages and Craftsman style single- and multi-family residences. The style and age of the buildings in the Lincoln Heights neighborhood are comparable to the style and age of buildings in the Firmin Street neighborhood. The Lincoln Heights neighborhood also experienced suburban development as a result of the 1892 discovery of oil, and many of the buildings were constructed in similar styles during the same time period as the buildings in the Firmin

[12] *The survey methodology and criteria for assessing properties for designation as Historic Resources was not defined in the CCWSP or supporting Environmental Impact Report.*

Street neighborhood. Relocating the building to Lincoln Heights would not destroy associations with the historic event of early residential development within the City because this neighborhood experienced the same suburban development that radiated from the historic core, or downtown, Los Angeles during the 1890s. The primary residence would continue to be used as a single-family residence. Therefore, the proposed receiver site would allow the primary residence to continue to convey an association with this historic event and is an appropriate location to move the building.

Additionally, the receiver site is a non-contributing property located within the Highland Park-Garvanza Historic Preservation Overlay Zone (HPOZ). The relocation of the main residence to the receiver site requires a Conforming Work on a Non-contributing Element review by the Department of City Planning Office of Historic Resources and the Historic Preservation Board pursuant to LAMC Section 12.20.3 J, which is a ministerial review process for work on non-contributing properties.

According to Section 15064.5(b)(3) of the CEQA Guidelines, projects that comply with the Standards are generally considered mitigated to a level of less than significant (Section 15064.5(b)(3) of the CEQA Guidelines). The building will be restored for habitation following the relocation pursuant to the following four Standards for Rehabilitation that most apply regarding the impact imposed on character-defining features and resource integrity by a relocation project:

> *2. The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be minimized as much as possible.*
>
> *3. Each property will be recognized as a physical record of its time, place and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.*
>
> *9. New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials, features, size, scale, and proportion, and massing to protect the integrity of the property and its environment.*
>
> *10. New additions and adjacent new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.*

The relocation of the primary residence building will require removal of the existing foundation and the insertion of cross-bracing to maintain the building's structure integrity. The primary residence does not contribute to a potential historic district; therefore, the change in setting would have minimal impact on the character of the historical resource. The exterior of the building will retain its general appearance and will be restored as a result of this project. Restoration will not result in the addition of conjectural elements creating a false sense of history. The new foundation for the relocated building will be compatible with the existing foundation in terms of height, materials, and skirting. Furthermore, the applicant will be required to submit a relocation plan to the Office of Historic Resources for review and approval prior to issuance of building permits.

Relocation of the primary residence may result in a substantial adverse change to a historical resource; however, the Historic Report determined that with the implementation of the following mitigation measure (MM CUL-1), the relocation will comply with the Standards and the primary residence will continue to be eligible for listing in the National Register on the local level pursuant to Criteria Consideration B: Moved Properties, the California Register, and for designation as an HCM. On May 6, 2019, the Office of Historic Resources of City of Los Angeles Department of City Planning reviewed and concurred with the findings and conclusion of the Historic Report. Pursuant to Section 15064.5(b)(3), projects that meet the Standards shall be considered as mitigated to a level of less than significant impact on the historical resource. Therefore, the Project would not result in a substantial adverse change to a historical resource as defined in Section 15064.5(b) of the CEQA Guidelines. Accordingly, the Project would have a less-than-significant effect on historical resources pursuant to Section 21084.1 of the Public Resources Code.

Mitigation Measures

MM CUL-1. To minimize impacts related to relocation of the historical resource, the primary residence of the property located at 430 N. Firmin Street shall be relocated to the property located at 115 E. Avenue 35 by a qualified building moving company with experience moving historic wood-frame buildings.

The building shall be moved and stabilized in accordance with the U.S. Department of the Interior, Heritage Conservation and Recreation Service, Technical Preservation Services Division's *Moving Historic Buildings* to ensure the successful relocation of the building that will not result in red tagging and subsequent demolition of the historical resource.

The building shall be restored for habitation following the relocation pursuant to Secretary of Interior's Standards for the Treatment of Historic Buildings.

A Relocation and Rehabilitation Plan (Plan) to relocate the building to 115 East Avenue 35, Los Angeles, California ("Avenue 35 Site") shall be commissioned by the applicant and developed by a qualified historic preservation consultant, to the satisfaction of the City of Los Angeles Department of City Planning Office of Historic Resources. The Plan shall incorporate to the extent feasible the relocation methodology recommended by the National Park Service (NPS), which is outlined in the booklet entitled "Moving Historic Buildings," by John Obed Curtis (1979). The Plan shall include an assessment of the house in its current condition and location by an experienced architect or engineer and actions that should be taken to minimize the physical impact, if any, on relocating the house to the final site. The Plan shall focus on preservation of the house in its current condition to the extent practicable.

Once at the Avenue 35 Site, the house should be sited in a manner as similar as reasonably possible to its historic setting and should retain the same relationship to grade to the extent feasible. Specifically, the new foundation should not be left exposed but should offer similar coverage like the existing wood skirting. Additional exposure or additional skirting should not be employed as a method to raise or lower the building.

In addition, a plaque describing the historical significance of the original location shall be placed in a visible location on the house. The removal, relocation and rehabilitation process shall be monitored by a qualified historic preservation consultant at key intervals to ensure conformance with the NPS methodology and the Standards. The preservation consultant shall also be available to provide technical expertise to reduce potential impacts to the house.

The moving company will have demonstrated experience with moving historic buildings in a manner that meets the Standards.

Threshold Criteria 15192 (h): The project site is not subject to wildland fire hazard, as determined by the Department of Forestry and Fire Protection, unless the applicable general plan or zoning ordinance contains provisions to mitigate the risk of a wildland fire hazard.

The Project Site is located in a highly urbanized area of the City, and does not include wildlands or high fire hazard terrain or vegetation. The Project Site is not located in a Fire Hazard Severity Zone as mapped and adopted by the Fire and Resource Assessment

Program of the California Department of Forestry and Fire Protection;[13] nor is the Project Site within a wildland fire hazard area.[14] Therefore, no impact from wildland fires would occur.

Threshold Criteria 15192 (i): The project site does not have an unusually high risk of fire or explosion from materials stored or used on nearby properties.

The types and amounts of hazardous materials that would be used in connection with the Project would be typical of those used in residential developments (e.g., cleaning solvents, pesticides for landscaping, painting supplies, and petroleum products). Construction of the Project would also involve the temporary use of potentially hazardous materials, including vehicle fuels, paints, oils, and transmission fluids. However, all potentially hazardous materials are to be contained, stored, and used in accordance with manufacturers' instructions and handled in compliance with applicable federal, State, and local regulations. Any associated risk would be reduced through compliance with these standards and regulations. Furthermore, there are no Aboveground Storage Tanks (AST's) and no Underground Storage Tanks (USTs) located on the Project Site. Therefore, the Project Site does not have an unusually high risk of fire or explosion from materials stored or used on nearby properties.

Threshold Criteria 15192 (j): The project site does not present a risk of a public health exposure at a level that would exceed the standards established by any state or federal agency.

The proposed project would be exposed to toxic air contaminant emissions from diesel truck emissions from nearby freeway diesel particulate matter (DPM) sources. In the *California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal. 4th 369 (CBIA) case, the California Supreme Court determined that CEQA does not generally require an impact analysis of the existing environmental conditions on the future residents of a proposed project and generally only requires an analysis of the proposed project's impact on the environment. However, the CBIA case also stated that when a proposed project brings development and people into an area already subject to specific hazards and the new development/people exacerbate the existing hazards, then CEQA requires an analysis of the hazards and the proposed project's effect in terms of increasing the risks related to those hazards. In regards to air quality hazards, toxic air contaminants (TACs) are defined as substances that may cause or contribute to an

[13] *Fire and Resource Assessment Program, California Department of Forestry and Fire Protection, Fire Hazard Severity Zone in SRA, Los Angeles County, website: http://frap.fire.ca.gov/webdata/maps/los_angeles/fhszs_map.19.pdf, accessed March 2019.*

[14] *City of Los Angeles Department of City Planning, Los Angeles City General Plan Safety Element, Exhibit D, Selected Wildfire Hazard Areas in the City of Los Angeles, Adopted November 1996.*

increase in deaths or in serious illness, or that may pose a present or potential hazard to human health. As such, if a proposed project would not exacerbate pre-existing hazards (e.g., TAC health risks) then an analysis of those hazards and the proposed project's effect on increasing those hazards is not required. However, as the Project is a residential project and will not be a source of toxic air contaminants, and the existing conditions on the Project Site only include vacant single-family residences that do not contain any operational land uses that emit toxic air contaminants, a health risk assessment (HRA) was performed by Kunzman Associates, Inc. for the Project on July 27, 2018 (see Appendix B).

SCAQMD methodology states that health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 30-year lifetime will contract cancer, based on the use of revised Office of Environmental Health Hazard Assessment (OEHHA) risk-assessment methodology.[15]

A health risk assessment requires the completion and interaction of four general steps:

(1) Quantify project-generated TAC emissions.

(2) Identify nearby ground-level receptor locations that may be affected by the emissions (including any special sensitive receptor locations such as residences, schools, hospitals, convalescent homes, and daycare centers).

(3) Perform air dispersion modeling analyses to estimate ambient pollutant concentrations at each receptor location using project TAC emissions and representative meteorological data to define the transport and dispersion of those emissions in the atmosphere.

(4) Characterize and compare the calculated health risks with the applicable health risk significance thresholds.

The ARB Air Quality and Land Use Handbook (ARB Handbook) provides an advisory recommendation to avoid the locating of new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day. The Project would construct residential uses within approximately 335 feet of the

[15] *In February 2015, the Office of Environmental Health Hazard Assessment updated their "Air Toxics Hot Spots Program, Risk Assessments Guidelines, Guidance Manual for Preparation of Health Risk Assessments; however, the updated OEHHA guidance states in the page footers "do not cite or quote." SCAQMD staff have incorporated the updates into their methodology for SCAQMD's Rules 1401, 1401.1, 1402, and 212, and have updated their HRA Guidance for permitting; however they are still in the process of updating the guidance for CEQA analyses (via working group sessions); however, to be conservative, the new OEHHA guidance was used to assess HRA impacts in the Kunzman HRA.*

101 Freeway. The California Department of Transportation traffic counts show 2016 AADT numbers of 217,000 (back AADT) at the segment of Los Angeles, Jct. Rte. 110 with a total of 7,574 of those vehicles being trucks.

As determined by the HRA, using "ultra-conservative assumptions", the 30.25-year, cumulative carcinogenic health risk (3rd trimester [-0.25 to 0 years] + infant [0-2 years] + child [2-16 years] + adult [16-30 years]) to an individual born during the opening year of the Project, and located in the project vicinity for the entire 30-year duration, is a maximum of 3.19 in a million. As the cancer risk is less than 10 in a million for all groups analyzed, it is concluded that the project site is will not be impacted by TAC emissions. Therefore, the Project would not present a risk of a public health exposure at a level that would exceed the standards established by a state or federal agency as it relates to the cancer risk from diesel emissions from the nearby freeway traffic.

The non-carcinogenic hazards to 3rd trimester, infant, child and adult receptors are also addressed in the HRA. The OEHHA as protective for the respiratory system has established this concentration. Using the maximum DPM concentration for the Project's opening year, the resulting Hazard Index is HIDPM = 0.12611/5 = 0.025. The criterion for significance is a Hazard Index increase of 1.0 or greater. Therefore, the Project would not present a risk of a public health exposure at a level that would exceed the standards established by a state or federal agency as it relates to the non-cancer risk from diesel emissions from the nearby freeway traffic.

Threshold Criteria 15192 (k): Either the project site is not within a delineated earthquake fault zone or a seismic hazard zone, as determined pursuant to Section 2622 and 2696 of the Public Resources Code respectively, or the applicable general plan or zoning ordinance contains provisions to mitigate the risk of an earthquake or seismic hazard.

The Alquist-Priolo Earthquake Fault Zoning Act was passed in 1972 to mitigate the hazards of surface faulting and fault rupture to built structures. Active earthquake faults are faults where surface rupture has occurred within the last 11,000 years. Surface rupture of a fault generally occurs within 50 feet of an active fault line. Neither of the Project Sites are located within an Alquist-Priolo Fault Zone or a city-designated Preliminary Fault Rupture Study Area.[16] According to ZIMAS, the closest surface trace of an active fault to the Project Site is the Upper Elysian Fault located approximately 0.53 miles to the north.[17] The closest surface trace of an active fault to the Avenue 35 Project

[16] *City of Los Angeles Department of City Planning, Zone Information & Map Access System, website: http://zimas.lacity.org, accessed: September 2018.*

[17] *City of Los Angeles Department of City Planning, Zone Information & Map Access System, website: http://zimas.lacity.org, accessed: September 2018.*

Site is the Upper Elysian Fault located approximately 1.65 miles away.[18] Therefore, the Project Site is not within a delineated earthquake fault zone or a seismic hazard zone.

Threshold Criteria 15192 (l): Either the project site does not present a landslide hazard, flood plain, flood way, or restriction zone, or the applicable general plan or zoning ordinance contains provisions to mitigate the risk of a landslide or flood.

The City's General Plan Safety Element indicates neither of the Project Site is located within an area identified as having a potential for slope instability. Additionally, based on the State of California Seismic Hazard Maps, the Project Site is not within an earthquake-induced landslide hazard zone.[19]

According to the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map, the Project Site is within Zone X – Other Areas, which is a designation for areas determined to be outside the 0.2 percent annual chance floodplain.[20] Thus, the Project Site is not within a designated flood hazard area.

Threshold Criteria 15192 (m): The project site is not located on developed open space.

The Firmin Street Project Site is currently improved with a single-family residence built in 1890 (418 Firmin), a vacant lot (425 Firmin), and a single-family residence built in 1895 (430 Firmin). The 0.4-acre Firmin Street Project Site is bounded by Firmin Street to the west, a surface parking lot and commercial and residential buildings to the north, and single and multi-family residential uses to the east and south. Thus, the Project would not be located on developed open space.

Threshold Criteria 15192 (n): The project site is not located within the boundaries of a state conservancy.

State conservancies in the Los Angeles region include Baldwin Hills Conservancy, San Gabriel & Lower Los Angeles Rivers & Mountains Conservancy, Santa Monica Mountains Conservancy, and State Coastal Conservancy.[21] The Project is not located within the boundaries of any of these conservancy areas.

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[18] *City of Los Angeles Department of City Planning, Zone Information & Map Access System, website: http://zimas.lacity.org, accessed: March 2019.*

[19] *GeoConcepts, Inc., Preliminary Geologic and Geotechnical Engineering Investigation, May 8, 2018.*

[20] *Federal Emergency Management Agency, Flood Insurance Rate Map, Los Angeles County, California, FIRM Panel 06037C1305F, website: http://msc.fema.gov/portal, accessed: March 2019.*

[21] *San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy, RMC Boundary Map, website: http://www.rmc.ca.gov/images/LA_maps/RMC_map.html, accessed March 2019; Baldwin Hills Conservancy, website: http://bhc.ca.gov/wp-*

Threshold Criteria 15192 (o): The project has not been divided into smaller projects to qualify for one or more of the exemptions set forth in sections 15193 to 15195.

The Project would involve the demolition of the existing single-family residence located at 418 N. Firmin Street, the relocation of the existing single-family residence located at 430 N. Firmin Street to 115 E. Avenue 35 in the Northeast Community Plan Area of the City of Los Angeles pursuant to MM CUL-1, and the construction of a five- to seven-story, 64-unit, 100 percent Affordable Housing project at 418, 426 and 430 N. Firmin Street. The Project would consist of 45 units of Permanent Supportive Housing (PSH), 19 Low Income units, and approximately 2,200 square feet of PSH supportive services areas including office, kitchen and community rooms. Parking for the Project would be provided on the first floor in a parking area that includes 10 spaces. The Project would also provide a total of 51 long-term bicycle parking spaces and five short-term bicycle parking spaces. The Project proposes to reach a maximum height not to exceed 86 feet in seven stories, as measured from the lowest finished grade adjacent to the proposed Project building to the roof ridge. The Project would export approximately 1,344 cubic yards of soil and as such would require a Haul Route as the Project Site is in a designated BOE Special Grading Area. The Project does not include any other components and has not been divided into smaller projects to qualify for an exemption.

Threshold Criteria 15194 (a): The project meets the threshold criteria set forth in section 15192.

As demonstrated above, the Project meets the threshold criteria set forth in section 15192, items (a) through (o).

Threshold Criteria 15194 (b): The project meets the following size criteria: the project site is not more than five acres in area.

The Firmin Street site is approximately 17,330 square feet or approximately 0.39 acre.

Threshold Criteria 15194 (c): The project meets both of the following requirements regarding location:

(1) The project meets one of the following location requirements relating to population density:

content/uploads/2016/08/Baldwin-Hills-Conservancy-Territory-Map-nw.jpg, accessed March 2019; Santa Monica Mountains Conservancy, Map of the Conservancy Zone (The Santa Monica Mountains and Rim of the Valley Corridor), website:

(A) The project site is located within an urbanized area or within a census-defined place with a population density of at least 5,000 persons per square mile.

(B) If the project consists of 50 or fewer units, the project site is located within an incorporated city with a population density of at least 2,500 persons per square mile and a total population of at least 25,000 persons.

(C) The project is located within either an incorporated city or a census defined place with a population density of at least 1,000 persons per square mile and there is no reasonable possibility that the project would have a significant effect on the environment or the residents of the project due to unusual circumstances or due to the related or cumulative impacts of reasonably foreseeable projects in the vicinity of the project.

(2) The project meets one of the following site-specific location requirements:

(A) The project site has been previously developed for qualified urban uses; or

(B) The parcels immediately adjacent to the project site are developed with qualified urban uses.

(C) The project site has not been developed for urban uses and all of the following conditions are met:

1. No parcel within the site has been created within 10 years prior to the proposed development of the site.

2. At least 75 percent of the perimeter of the site adjoins parcels that are developed with qualified urban uses.

3. The existing remaining 25 percent of the perimeter of the site adjoins parcels that have previously been developed for qualified urban uses.

According to the United States Census Bureau, the City of Los Angeles had a population density of 8,092.3 persons per square mile in the 2010 census.[22] The Project Site was previously developed with two single-family homes. The Project Site has been previously developed with urban uses and is surrounded by urban development.

Threshold Criteria 15194 (d:) The project meets both of the following requirements regarding provision of affordable housing.

[22] *United States Census Bureau, Population per square mile, 2010, website: https://www.census.gov/quickfacts/fact/table/losangelescitycalifornia/POP060210#POP060210, accessed March 2019.*

(1) The project consists of the construction, conversion, or use of residential housing consisting of 100 or fewer units that are affordable to low-income households.

(2) The developer of the project provides sufficient legal commitments to the appropriate local agency to ensure the continued availability and use of the housing units for lower income households for a period of at least 30 years, at monthly housing costs deemed to be "affordable rent" for lower income, very low income, and extremely low income households, as determined pursuant to Section 50053 of the Health and Safety Code.

The Project would involve the construction of a five- to seven-story, 64-unit, 100 percent Affordable Housing project. The Project would consist of 45 units of Permanent Supportive Housing (PSH), 19 Low Income units, and approximately 2,200 square feet of PSH supportive services areas including office, kitchen and community rooms. A 55-year covenant would be recorded with the County Clerk to bind all current and future owners of the site to the affordability provisions set forth with Project approval.

Appendix A

City of Los Angeles Department of City Planning, Zoning Information File No. 2452

CITY OF LOS ANGELES
DEPARTMENT OF CITY PLANNING
ZONING INFORMATION FILE

ZI NO. 2452

TRANSIT PRIORITY AREAS (TPAs) / EXEMPTIONS TO AESTHETICS AND PARKING WITHIN TPAs PURSUANT TO CEQA

CITYWIDE

Note: This Zoning Information File is for information only and does not require any compliance check from LADBS or DCP.

COMMENTS:

On September 2013, the Governor signed into law Senate Bill (SB) 743, which instituted changes to the California Environmental Quality Act (CEQA) when evaluating environmental impacts to projects located in areas served by transit. While the thrust of SB 743 addressed a major overhaul on how transportation impacts are evaluated under CEQA, it also limited the extent to which aesthetics and parking are defined as impacts under CEQA. Specifically, Section 21099 (d)(1) of the Public Resources Code (PRC) states that a project's aesthetic and parking impacts shall not be considered a significant impact on the environment if:

1. The project is a residential, mixed-use residential, or employment center project, and

2. The project is located on an infill site within a transit priority area.

Section 21099 (a) of the PRC defines the following terms:

(1) "Employment center project" (TPAs) means a project located on property zoned for commercial uses with a floor area ratio of no less than 0.75 and that is located within a transit priority area.

(4) "Infill site" means a lot located within an urban area that has been previously developed, or on a vacant site where at least 75 percent of the perimeter of the site adjoins, or is separated only by an improved public right-of-way from, parcels that are developed with qualified urban uses.

(7) "Transit priority area" means an area within one-half mile of a major transit stop that is existing or planned. Section 21064.3 of the PRC defines a "major transit stop" as a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods. For purposes of Section 21099 of the PRC, a transit priority area also includes major transit stops in the City of Los Angeles (city) that are scheduled to be completed within the planning horizon of the Southern California Association of Governments (SCAG) Regional Transportation Plan / Sustainable Community Strategy (RTP/SCS).

While the Governor's Office of Planning and Research (OPR) is still in the process of drafting guidance to substantially revise transportation impact methodology for infill projects, the

elimination of aesthetics and parking for infill projects went into effect January 2014. No further action is needed for the elimination of aesthetics and parking for infill projects, defined herein to take effect as part of the City's impact evaluations pursuant to CEQA.

INSTRUCTIONS:

Visual resources, aesthetic character, shade and shadow, light and glare, and scenic vistas or any other aesthetic impact as defined in the City's CEQA Threshold Guide shall not be considered an impact for infill projects within TPAs (shown in the attached map) pursuant to CEQA. However, this law did not limit the ability of the City to regulate, or study aesthetic related impacts pursuant to other land use regulations found in the Los Angeles Municipal Code (LAMC), or the City's General Plan, including specific plans. For example, DCP staff would still need to address a project's shade and shadow impacts if it is expressly required in a specific plan, Community Design Overlays (CDOs), or Historic Preservation Overlay Zones (HPOZs). Also note that the limitation of aesthetic impacts pursuant to Section 21099 of the PRC does not include impacts to historic or cultural resources. Impacts to historic or cultural resources will need to be evaluated pursuant to CEQA regardless of project location.

Find attached a citywide map of TPAs in the City of Los Angeles. Department of City Planning (DCP) staff should use this citywide map in determining if a project is clearly within a TPA, and if aesthetics and parking are not to be included in a project's impact evaluation in a negative declaration (ND), mitigated negative declaration (MND) or environmental impact report (EIR) prepared in accordance with CEQA. Eventually, TPAs will be identified in ZIMAS, however this map is to be referenced on an interim basis. Planners should also consult ZIMAS or Navigate LA if it cannot be determined from the map if a project site is within ½ mile of a major transit stop.

A project shall be considered to be within a TPA if all parcels within the project have no more than 25 percent of their area farther than one-half mile from the major transit stop and if not more than 10 percent of the residential units or 100 units, whichever is less, in the project are farther than one-half mile from the major transit stop. Projects intersecting non-overlapping TPA boundaries would also need to demonstrate they are within one-half mile of a major transit stop based on boarding location information. The burden shall be on the project applicant to demonstrate their project is within a TPA for parcels along a TPA boundary.

For further information regarding TPAs or SB 743, contact David Somers at (213) 978-3307

Further reference:

http://opr.ca.gov/s_transitorienteddevelopmentsb743.php

Citywide
Transit Priority Areas

- Major Stop
- Freeway
- Transit Priority Area
- City Limits

N

0 2 4 8 Miles

3/24/2016

H:\sjackson\GIS1Work\Requests\PlannedTransitPriorityAreas\TPAcitywide.mxd

Appendix B

Bureau of Engineering Letter (Dedications and Improvements)

BOARD OF PUBLIC WORKS
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http://eng.lacity.org

5/13/2019

CRAIG LAWSON & Co.,LLC
3221 HUTCHISON AVENUE
LOS ANGELES, CA 90034

Planning Case: DIR-2018-3691-TOC-SPP-WDI
Address: 418-430 N FIRMIN ST, LOS ANGELES

Greetings:

Your WDI application has been referred to my office for review under Section 12.37 of the Los Angeles Municipal Code. Since the building site adjoins **Firmin Street**, designated as a Local Street – Limited, this project is not subject to dedication and improvement per Los Angeles Municipal Code 12.37.

Section 12.37 L.A.M.C., provides for minimum dedication and improvement requirements which do not preclude conditions established by the City Planning actions.

Sincerely,

Carl Mills P.E.
Assistant District Engineer

Recyclable and made from recycled waste.

Appendix C

Air Quality, Global Climate Change, and Health Risk Assessment Impact Analysis (Air Quality Report)

KUNZMAN ASSOCIATES, INC.

FIRMIN COURT

AIR QUALITY, GLOBAL CLIMATE CHANGE, AND HEALTH RISK ASSESSMENT IMPACT ANALYSIS

July 27, 2018

Traffic Engineering | Transportation Planning | Parking | Noise/Vibration | Expert Witness
Air Quality | Global Climate Change | Health Risk Assessment

FIRMIN COURT

AIR QUALITY, GLOBAL CLIMATE CHANGE, AND HEALTH RISK ASSESSMENT IMPACT ANALYSIS

July 27, 2018

Prepared by:

Katie Wilson, M.S. ■ Catherine Howe, M.S. ■ Carl Ballard, LEED GA

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JN 7427a

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I. INTRODUCTION AND SETTING

A. Purpose and Objectives

This study was performed to address the possibility of regional and local air quality impacts, and global climate change impacts, from project-related air emissions. The objectives of the study include:

- documentation of the atmospheric setting
- discussion of criteria pollutants and greenhouse gases
- discussion of the air quality and global climate change regulatory framework
- discussion of the air quality, greenhouse gases, and cancer risk thresholds of significance
- analysis of the construction related air quality and greenhouse gas emissions
- analysis of the operations related air quality and greenhouse gas emissions
- analysis of the conformity of the proposed project with the South Coast Air Quality Management District (SCAQMD) Air Quality Management Plan (AQMP)
- recommendations for mitigation measures

The City of Los Angeles is the lead agency responsible for preparation of this air quality analysis, in accordance with the California Environmental Quality Act authorizing legislation. Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with terms unique to air quality and global climate change, a definition of terms has been provided in Appendix A.

B. Project Location

The project site is located at 418, 426, and 430 North Firmin Street in the City of Los Angeles. The general plan land use designation for the site is Medium Residential. The site is currently developed with two single-family detached residential dwelling units. The vicinity map showing the project location is provided on Figure 1.

C. Project Description

The project proposes to construct 42 permanent supportive housing dwelling units and 22 affordable family housing dwelling units. Figure 2 illustrates the project site plan.

D. Phasing and Timing

The project is anticipated to be constructed in one phase with construction expected to begin in March 2019 and being completed in approximately 18 months. The project will be operational in 2020.

E. Sensitive Receptors in Project Vicinity

Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. For purposes of CEQA, the SCAQMD

defines a sensitive receptor as a land use such as residences, schools, child care centers, athletic facilities, playgrounds, retirement homes and convalescent homes (South Coast Air Quality Management District 2008). Commercial and industrial facilities are not included in the definition because employees do not typically remain on-site for 24 hours.

The nearest sensitive receptors to the project site are the single-family detached residential dwelling units located adjacent to the north and east and the multi-family attached residential dwelling units located adjacent to the south and approximately 35 feet west (across Firmin Street). In addition, the fields for Civitas School of Leadership and Edward R. Royal Learning Center School are located as close as approximately 210 feet southeast and Betty Plasencia Elementary School and Angelina Preschool are located approximately 575 feet west.

F. Executive Summary of Findings

Construction-Source Emissions

Project construction-source emissions would not exceed applicable regional thresholds of significance established by the SCAQMD. For localized emissions, the project will not exceed applicable Localized Significance Thresholds (LSTs) established by the SCAQMD.

Project construction-source emissions would not conflict with the Basin Air Quality Management Plan (AQMP). As discussed herein, the project will comply with all applicable SCAQMD construction-source emission reduction rules and guidelines. Project construction source emissions would not cause or substantively contribute to violation of the California Ambient Air Quality Standards (CAAQS) or National Ambient Air Quality Standards (NAAQS).

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less-than-significant.

Operational-Source Emissions

Project operational-sourced emissions would not exceed applicable regional thresholds of significance established by the SCAQMD. Project operational-source emissions would not result in or cause a significant localized air quality impact as discussed in the Operations-Related Local Air Quality Impacts section of this report. Additionally, project-related vehicle trips will not cause or result in CO concentrations exceeding applicable state and/or federal standards (CO “hotspots). The project is a residential use, and will not be a significant source of TACs and would also not be exposed to significant DPM TAC emissions or cancer risk from nearby freeway traffic. Therefore, project operational-source emissions would not adversely affect sensitive receptors within the vicinity of the project.

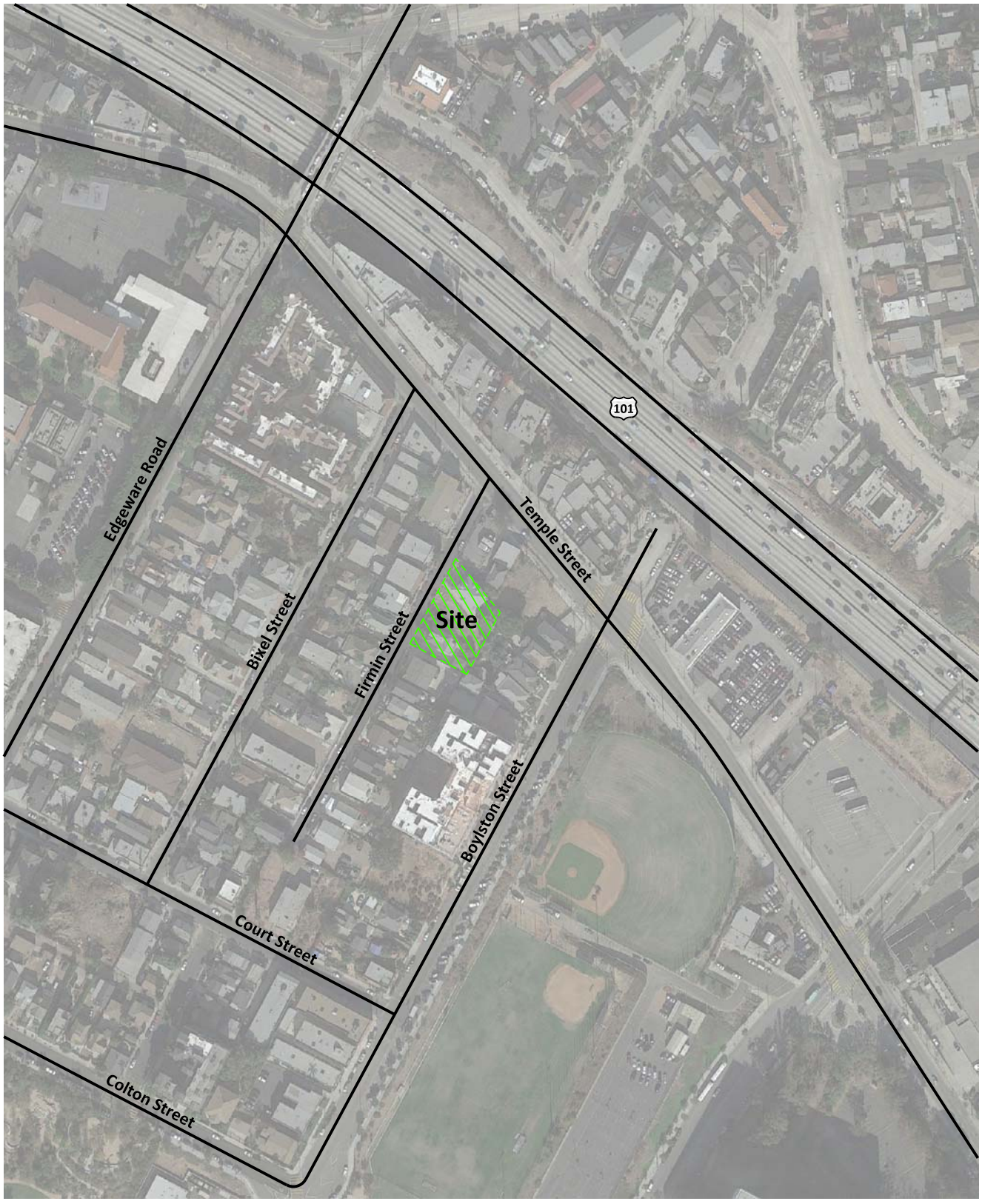
Project operational-source emissions would not conflict with the Basin Air Quality Management Plan (AQMP). The project's emissions meet SCAQMD regional thresholds and will not result in a significant cumulative impact. The project does not propose any such uses or activities that would result in potentially significant operational-source odor

impacts. Potential operational-source odor impacts are therefore considered less-than significant.

Greenhouse Gases

Project-related GHG emissions are also considered to be less than significant and will not conflict with the goals of AB-32, SB-32, the 2014 Los Angeles Green Building Code, or the 2007 Green LA: An Action Plan to Lead the Nation in Fighting Global Warming.

Figure 1
Project Location Map

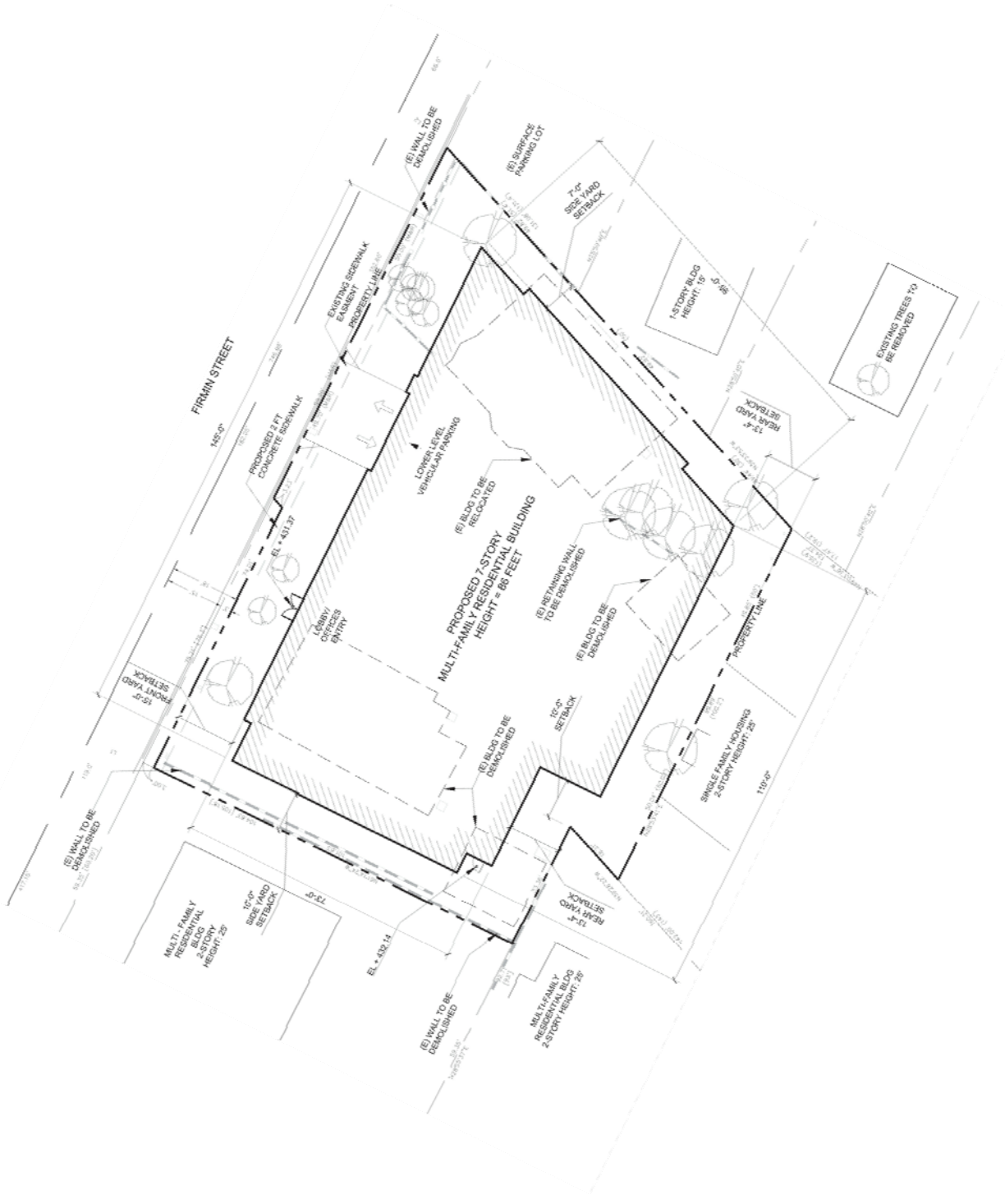


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Figure 2
Site Plan



II. ATMOSPHERIC SETTING

A. Local Air Quality

The project site is located within the City of Los Angeles, in the southern portion of Los Angeles County, which is part of the South Coast Air Basin (SCAB) that includes all of Orange County as well as the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The South Coast Air Basin is located on a coastal plain with connecting broad valleys and low hills to the east. Regionally, the South Coast Air Basin is bounded by the Pacific Ocean to the southwest and high mountains to the east forming the inland perimeter.

Dominant airflows provide the driving mechanism for transport and dispersion of air pollution. The mountains surrounding the region form natural horizontal barriers to the dispersion of air contaminants. Air pollution created in the coastal areas and around the Los Angeles area is transported inland until it reaches the mountains where the combination of mountains and inversion layers generally prevent further dispersion. This poor ventilation results in a gradual degradation of air quality from the coastal areas to inland areas. Air stagnation may occur during the early evening and early morning periods of transition between day and nighttime flows. The region also experiences periods of hot, dry winds from the desert, known as Santa Ana winds. If the Santa Ana winds are strong, they can surpass the sea breeze, which blows from the ocean to the land, and carry the suspended dust and pollutants out to the ocean. If the winds are weak, they are opposed by the sea breeze and cause stagnation, resulting in high pollution events.

The annual average temperature varies little throughout much of the basin, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas where the project site is located. The majority of the annual rainfall in the basin occurs between November and April. Summer rainfall is minimal and is generally limited to scattered thunderstorms in the coastal regions and slightly heavier showers in the eastern portion of the basin along the coastal side of the mountains. Year-to-year patterns in rainfall are unpredictable because of fluctuations in the weather.

Temperature inversions limit the vertical depth through which pollution can be mixed. Among the most common temperature inversions in the basin are radiation inversions, which form on clear winter nights when cold air off mountains sink to the valley floor while the air aloft over the valley remains warm. These inversions, in conjunction with calm winds, trap pollutants near the source. Other types of temperature inversions that affect the basin include marine, subsidence, and high-pressure inversions.

Summers are often periods of hazy visibility and occasionally unhealthful air. Strong temperature inversions may occur that limit the vertical depth through which air pollution can be dispersed. Air pollutants concentrate because they cannot rise through the inversion layer and disperse. These inversions are more common and persistent during the summer months. Over time, sunlight produces photochemical reactions within this inversion layer that creates ozone, a particularly harmful air pollutant. Occasionally, strong

thermal convections occur which allows the air pollutants to rise high enough to pass over the mountains and ultimately dilute the smog cloud.

In the winter, light nocturnal winds result mainly from the drainage of cool air off of the mountains toward the valley floor while the air aloft over the valley remains warm. This forms a type of inversion known as a radiation inversion. Such winds are characterized by stagnation and poor local mixing and trap pollutants such as automobile exhaust near their source. While these inversions may lead to air pollution "hot spots" in heavily developed coastal areas of the basin, there is not enough traffic to cause any winter air pollution problems. Despite light wind conditions, especially at night and in the early morning, winter is generally a period of good air quality in the project vicinity.

The temperature and precipitation levels for the City of Los Angeles are shown below in Table 1. Table 1 shows that August is typically the warmest month and December is typically the coolest month. Rainfall in the project area varies considerably. Almost all the annual rainfall comes from the fringes of mid-latitude storms from late November to early April, with summers being almost completely dry.

Table 1

Los Angeles Monthly Climate Data[1]

Descriptor	Month of Year											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg. Max. Temperature (^{o}f)	68.5	68.9	70.5	73.1	75.1	78.7	83.4	84.7	83.2	78.9	70.8	68.3
Avg. Min. Temperature (^{o}f)	49.5	51.1	53.0	55.5	59.0	62.0	65.1	65.8	64.5	60.4	52.1	49.4
Avg. Total Precipitation (in.)	3.07	3.73	2.42	0.97	0.31	0.08	0.01	0.05	0.21	0.66	1.04	2.44

[1] Source: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca5115. Data taken from the Los Angeles DWTN USC Campus station (045115).

III. POLLUTANTS

Pollutants are generally classified as either criteria pollutants or non-criteria pollutants. Federal ambient air quality standards have been established for criteria pollutants, whereas no ambient standards have been established for non-criteria pollutants. For some criteria pollutants, separate standards have been set for different periods. Most standards have been set to protect public health. For some pollutants, standards have been based on other values (such as protection of crops, protection of materials, or avoidance of nuisance conditions). A summary of federal and state ambient air quality standards is provided in the Regulatory Framework section.

A. Criteria Pollutants

The criteria pollutants consist of: ozone, nitrogen dioxide, carbon monoxide, sulfur dioxide, lead, and particulate matter. These pollutants can harm your health and the environment, and cause property damage. The Environmental Protection Agency (EPA) calls these pollutants "criteria" air pollutants because it regulates them by developing human health-based and/or environmentally-based criteria for setting permissible levels. The following provides descriptions of each of the criteria pollutants.

1. Nitrogen Dioxide (NO_2)

Nitrogen Oxides (NOx) is the generic term for a group of highly reactive gases which contain nitrogen and oxygen. While most NOx are colorless and odorless, concentrations of nitrogen dioxide (NO_2) can often be seen as a reddish-brown layer over many urban areas. NOx form when fuel is burned at high temperatures, as in a combustion process. The primary manmade sources of NOx are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuel. NOx reacts with other pollutants to form, ground-level ozone, nitrate particles, acid aerosols, as well as NO_2, which cause respiratory problems. NOx and the pollutants formed from NOx can be transported over long distances, following the patterns of prevailing winds. Therefore controlling NOx is often most effective if done from a regional perspective, rather than focusing on the nearest sources.

2. Ozone (O_3)

Ozone is not usually emitted directly into the air but at ground-level is created by a chemical reaction between NOx and volatile organic compounds (VOC) in the presence of sunlight. Motor vehicle exhaust, industrial emissions, gasoline vapors, chemical solvents as well as natural sources emit NOx and VOC that help form ozone. Ground-level ozone is the primary constituent of smog. Sunlight and hot weather cause ground-level ozone to form with the greatest concentrations usually occurring downwind from urban areas. Ozone is subsequently considered a regional pollutant. Ground-level ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and can cause substantial damage to vegetation and other materials. Because NOx and VOC are ozone precursors, the health effects associated with ozone are also indirect health effects associated with significant levels of NOx and VOC emissions.

3. Carbon Monoxide (CO)

Carbon monoxide (CO) is a colorless, odorless gas that is formed when carbon in fuel is not burned completely. It is a component of motor vehicle exhaust, which contributes about 56 percent of all CO emissions nationwide. In cities, 85 to 95 percent of all CO emissions may come from motor vehicle exhaust. Other sources of CO emissions include industrial processes (such as metals processing and chemical manufacturing), residential wood burning, and natural sources such as forest fires. Woodstoves, gas stoves, cigarette smoke, and unvented gas and kerosene space heaters are indoor sources of CO. The highest levels of CO in the outside air typically occur during the colder months of the year when inversion conditions are more frequent. The air pollution becomes trapped near the ground beneath a layer of warm air. CO is described as having only a local influence because it dissipates quickly. Since CO concentrations are strongly associated with motor vehicle emissions, high CO concentrations generally occur in the immediate vicinity of roadways with high traffic volumes and traffic congestion, active parking lots, and in automobile tunnels. Areas adjacent to heavily traveled and congested intersections are particularly susceptible to high CO concentrations.

CO is a public health concern because it combines readily with hemoglobin and thus reduces the amount of oxygen transported in the bloodstream. The health threat from lower levels of CO is most serious for those who suffer from heart disease such as angina, clogged arteries, or congestive heart failure. For a person with heart disease, a single exposure to CO at low levels may cause chest pain and reduce that person's ability to exercise; repeated exposures may contribute to other cardiovascular effects. High levels of CO can affect even healthy people. People who breathe high levels of CO can develop vision problems, reduced ability to work or learn, reduced manual dexterity, and difficulty performing complex tasks. At extremely high levels, CO is poisonous and can cause death.

4. Sulfur Dioxide (SO_2)

Sulfur Oxide (SOx) gases (including sulfur dioxide [SO_2]) are formed when fuel containing sulfur, such as coal and oil is burned, and from the refining of gasoline. SOx dissolves easily in water vapor to form acid and interacts with other gases and particles in the air to form sulfates and other products that can be harmful to people and the environment.

5. Lead (Pb)

Lead is a metal found naturally in the environment as well as manufactured products. The major sources of lead emissions have historically been motor vehicles and industrial sources. Due to the phase out of leaded gasoline, metal processing is now the primary source of lead emissions to the air. High levels of lead in the air are typically only found near lead smelters, waste incinerators, utilities, and lead-acid battery manufacturers. Exposure of fetuses, infants and children to low levels of lead can adversely affect the development and function of the central nervous system,

leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased lead levels are associated with increased blood pressure.

6. Particulate Matter (PM)

Particulate matter (PM) is the term for a mixture of solid particles and liquid droplets found in the air. Particulate matter is made up of a number of components including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles. The size of particles is directly linked to their potential for causing health problems. Particles that are less than 10 micrometers in diameter (PM10) are the particles that generally pass through the throat and nose and enter the lungs. Once inhaled, these particles can affect the heart and lungs and cause serious health effects. Particles that are less than 2.5 micrometers in diameter (PM2.5) have been designated as a subset of PM10 due to their increased negative health impacts and its ability to remain suspended in the air longer and travel further.

7. Volatile Organic Compounds (VOCs)

Although not a criteria pollutant, reactive organic gases (ROGs), or VOCs, are defined as any compound of carbon—excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROGs and VOCs, the two terms are often used interchangeably. Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM10 and lower visibility.

B. Other Pollutants of Concern

1. Toxic Air Contaminants (TACs)

In addition to the above-listed criteria pollutants, toxic air contaminants are another group of pollutants of concern. Sources of toxic air contaminants include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Cars and trucks release at least forty different toxic air contaminants. The most important of these toxic air contaminants, in terms of health risk, are diesel particulates, benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Public exposure to toxic air contaminants can result from emissions from normal operations as well as from accidental releases. Health effects of toxic air contaminants include cancer, birth defects, neurological damage, and death.

Toxic air contaminants are less pervasive in the urban atmosphere than criteria air pollutants, however they are linked to short-term (acute) or long-term (chronic or carcinogenic) adverse human health effects. There are hundreds of different types of

toxic air contaminants with varying degrees of toxicity. Sources of toxic air contaminants include industrial processes, commercial operations (e.g., gasoline stations and dry cleaners), and motor vehicle exhaust.

According to the 2013 California Almanac of Emissions and Air Quality, the majority of the estimated health risk from toxic air contaminants can be attributed to relatively few compounds, the most important of which is diesel particulate matter (DPM). Diesel particulate matter is a subset of PM2.5 because the size of diesel particles are typically 2.5 microns and smaller. The identification of diesel particulate matter as a toxic air contaminant in 1998 led the California Air Resources Board (CARB) to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-fueled Engines and Vehicles in September 2000. The plan's goals are a 75-percent reduction in diesel particulate matter by 2010 and an 85-percent reduction by 2020 from the 2000 baseline. Diesel engines emit a complex mixture of air pollutants, composed of gaseous and solid material. The visible emissions in diesel exhaust are known as particulate matter or PM, which includes carbon particles or "soot." Diesel exhaust also contains a variety of harmful gases and over 40 other cancer-causing substances. California's identification of diesel particulate matter as a toxic air contaminant was based on its potential to cause cancer, premature deaths, and other health problems. Exposure to diesel particulate matter is a health hazard, particularly to children whose lungs are still developing and the elderly who may have other serious health problems. Overall, diesel engine emissions are responsible for the majority of California's potential airborne cancer risk from combustion sources.

2. Asbestos

Asbestos is listed as a TAC by the ARB and as a Hazardous Air Pollutant by the EPA. Asbestos occurs naturally in mineral formations and crushing or breaking these rocks, through construction or other means, can release asbestiform fibers into the air. Asbestos emissions can result from the sale or use of asbestos-containing materials, road surfacing with such materials, grading activities, and surface mining. The risk of disease is dependent upon the intensity and duration of exposure. When inhaled, asbestos fibers may remain in the lungs and with time may be linked to such diseases as asbestosis, lung cancer, and mesothelioma. Naturally occurring asbestos is not present in Los Angeles County. The nearest likely locations of naturally occurring asbestos, as identified in the General Location Guide for Ultramafic Rocks in California prepared by the California Division of Mines and Geology, is located in Santa Barbara County. Due to the distance to the nearest natural occurrences of asbestos, the project site is not likely to contain asbestos.

C. Greenhouse Gases (GHGs)

Constituent gases of the Earth's atmosphere, called atmospheric greenhouse gases, play a critical role in the Earth's radiation amount by trapping infrared radiation emitted from the Earth's surface, which otherwise would have escaped to space. Prominent greenhouse gases contributing to this process include carbon dioxide (CO_2), methane (CH_4), ozone, water vapor, nitrous oxide (N_2O), and chlorofluorocarbons (CFCs). This phenomenon, known as the Greenhouse Effect, is responsible for maintaining a habitable climate.

Anthropogenic (caused or produced by humans) emissions of these greenhouse gases in excess of natural ambient concentrations are responsible for the enhancement of the Greenhouse Effect and have led to a trend of unnatural warming of the Earth's natural climate, known as global warming or climate change. Emissions of gases that induce global warming are attributable to human activities associated with industrial/manufacturing, agriculture, utilities, transportation, and residential land uses. Transportation is responsible for 41 percent of the State's greenhouse gas emissions, followed by electricity generation. Emissions of CO_2 and nitrous oxide (NOx) are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of CO_2, where CO_2 is stored outside of the atmosphere, include uptake by vegetation and dissolution into the ocean. The following provides a description of each of the greenhouse gases and their global warming potential.

1. Water Vapor

Water vapor is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to "hold" more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive feedback loop." The extent to which this positive feedback loop will continue is unknown as there is also dynamics that put the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it will eventually also condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the Earth's surface and heat it up).

2. Carbon Dioxide

The natural production and absorption of CO_2 is achieved through the terrestrial biosphere and the ocean. However, humankind has altered the natural carbon cycle by burning coal, oil, natural gas, and wood. Since the industrial revolution began in the mid 1700s, each of these activities has increased in scale and distribution. CO_2 was the first GHG demonstrated to be increasing in atmospheric concentration with the first conclusive measurements being made in the last half of the 20th century. Prior to the industrial revolution, concentrations were fairly stable at 280 parts per million (ppm). The International Panel on Climate Change (IPCC Fifth Assessment Report, 2014) Emissions of CO_2 from fossil fuel combustion and industrial processes contributed about 78% of the total GHG emissions increase from 1970 to 2010, with a similar percentage contribution for the increase during the period 2000 to 2010. Globally, economic and population growth continued to be the most important

drivers of increases in CO_2 emissions from fossil fuel combustion. The contribution of population growth between 2000 and 2010 remained roughly identical to the previous three decades, while the contribution of economic growth has risen sharply.

3. Methane

CH_4 is an extremely effective absorber of radiation, although its atmospheric concentration is less than that of CO_2. Its lifetime in the atmosphere is brief (10 to 12 years), compared to some other GHGs (such as CO_2, N_2O, and Chlorofluorocarbons (CFCs). CH_4 has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of methane. Other anthropocentric sources include fossil-fuel combustion and biomass burning.

4. Nitrous Oxide

Concentrations of N_2O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration of this GHG was documented at 314 parts per billion (ppb). N_2O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is also commonly used as an aerosol spray propellant, (i.e., in whipped cream bottles, in potato chip bags to keep chips fresh, and in rocket engines and in race cars).

5. Chlorofluorocarbons

CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the Earth's surface). CFCs have no natural source, but were first synthesized in 1928. It was used for refrigerants, aerosol propellants, and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and in 1989 the European Community agreed to ban CFCs by 2000 and subsequent treaties banned CFCs worldwide by 2010. This effort was extremely successful, and the levels of the major CFCs are now remaining level or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years.

6. Hydrofluorocarbons

HFCs are synthetic man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential. The HFCs with the largest measured atmospheric abundances are (in order), HFC-23 (CHF_3), HFC-134a (CF_3CH_2F), and HFC-152a (CH_3CHF_2). Prior to 1990, the only

significant emissions were HFC-23. HFC-134a use is increasing due to its use as a refrigerant. Concentrations of HFC-23 and HFC-134a in the atmosphere are now about 10 parts per trillion (ppt) each. Concentrations of HFC-152a are about 1 ppt. HFCs are manmade for applications such as automobile air conditioners and refrigerants.

7. Perfluorocarbons

PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). Concentrations of CF_4 in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

8. Sulfur Hexafluoride

SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF_6 has the highest global warming potential of any gas evaluated; 23,900 times that of CO_2. Concentrations in the 1990s were about 4 ppt. Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

9. Aerosols

Aerosols are particles emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light. Cloud formation can also be affected by aerosols. Sulfate aerosols are emitted when fuel containing sulfur is burned. Black carbon (or soot) is emitted during biomass burning due to the incomplete combustion of fossil fuels. Particulate matter regulation has been lowering aerosol concentrations in the United States; however, global concentrations are likely increasing.

10. Global Warming Potential

The Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different gases. Specifically, it is a measure of how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO_2). The larger the GWP, the more that a given gas warms the Earth compared to CO_2 over that time period. The time period usually used for GWPs is 100 years. GWPs provide a common unit of measure, which allows analysts to add up emissions estimates of different gases (e.g., to compile a national GHG inventory), and allows policymakers to compare emissions reduction opportunities across sectors and gases. A summary of the atmospheric lifetime and

the global warming potential of selected gases are summarized in Table 2. As shown in Table 2, the global warming potential of GHGs ranges from 1 to 22,800.

Table 2

Global Warming Potentials and Atmospheric Lifetimes[1]

Gas	Atmospheric Lifetime	Global Warming Potential[2] (100 Year Horizon)
Carbon Dioxide (CO_2)	—[3]	1
Methane (CH_4)	12	28-36
Nitrous Oxide (NO)	114	298
Hydrofluorocarbons (HFCs)	1-270	12-14,800
Perfluorocarbons (PFCs)	2,600-50,000	7,390-12,200
Nitrogen trifluoride (NF_3)	740	17,200
Sulfur Hexafluoride (SF_6)	3,200	22,800

[1] Source: http://www3.epa.gov/climatechange/ghgemissions/gases.html

[2] Compared to the same quantity of CO_2 emissions.

[3] Carbon dioxide's lifetime is poorly defined because the gas is not destroyed over time, but instead moves among different parts of the ocean–atmosphere–land system. Some of the excess carbon dioxide will be absorbed quickly (for example, by the ocean surface), but some will remain in the atmosphere for thousands of years, due in part to the very slow process by which carbon is transferred to ocean sediments.

IV. AIR QUALITY MANAGEMENT

A. Regulatory Setting

The proposed project is addressed through the efforts of various international, federal, state, regional, and local government agencies. These agencies work jointly, as well as individually, to improve air quality through legislation, regulations, planning, policy-making, education, and a variety of programs. The agencies responsible for improving the air quality are discussed below.

1. International

Montreal Protocol

In 1988, the United Nations established the Intergovernmental Panel on Climate Change (IPCC) to evaluate the impacts of global climate change and to develop strategies that nations could implement to curtail global climate change. In 1992, the United States joined other countries around the world in signing the United Nations' Framework Convention on Climate Change (UNFCCC) agreement with the goal of controlling GHG emissions. As a result, the Climate Change Action Plan was developed to address the reduction of GHGs in the United States. The plan consists of more than 50 voluntary programs.

Additionally, the Montreal Protocol was originally signed in 1987 and substantially amended in 1990 and 1992. The Montreal Protocol stipulates that the production and consumption of compounds that deplete ozone in the stratosphere—CFCs, halons, carbon tetrachloride, and methyl chloroform—were to be phased out, with the first three by the year 2000 and methyl chloroform by 2005.

The Paris Agreement

The Paris Agreement entered into force on 4 November 2016, thirty days after the date on which at least 55 Parties to the Convention accounting in total for at least an estimated 55 percent of the total global greenhouse gas emissions have deposited their instruments of ratification, acceptance, approval or accession with the Depositary.

The Paris Agreement builds upon the Convention and – for the first time – brings all nations into a common cause to undertake take ambitious efforts to combat climate change and adapt to its effects, with enhanced support to assist developing countries to do so. As such, it charts a new course in the global climate effort.

The Paris Agreement's central aim is to strengthen the global response to the threat of climate change by keeping a global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius. Additionally, the agreement aims to strengthen the ability of countries to deal with the impacts of climate change. To reach these ambitious goals, appropriate financial flows, a new technology framework and an enhanced capacity building framework will be put in

place, thus supporting action by developing countries and the most vulnerable countries, in line with their own national objectives. The Agreement also provides for enhanced transparency of action and support through a more robust transparency framework.

2. Federal - United States Environmental Protection Agency

The United States Environmental Protection Agency (EPA) is responsible for setting and enforcing the National Ambient Air Quality Standards (NAAQS) for atmospheric pollutants. It regulates emission sources that are under the exclusive authority of the federal government, such as aircraft, ships, and certain locomotives. The National Ambient Air Quality Standards (NAAQS) pollutants were identified using medical evidence and are shown below in Table 3.

The EPA and the California Air Resource Board (CARB) designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified." National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or 'form' of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the Federal annual PM2.5 standard is met if the three-year average of the annual average PM2.5 concentration is less than or equal to the standard. Attainment status is shown in Table 4.

As part of its enforcement responsibilities, the EPA requires each state with federal nonattainment areas to prepare and submit a State Implementation Plan (SIP) that demonstrates the means to attain the national standards. The State Implementation Plan (SIP) must integrate federal, state, and local components and regulations to identify specific measures to reduce pollution, using a combination of performance standards and market-based programs within the timeframe identified in the State Implementation Plan (SIP).

As indicated below in Table 4, the Basin has been designated by the EPA as a non-attainment area for ozone (O_3) and attainment/maintenance for suspended particulates (PM10) and non-attainment for suspended particulates (PM2.5). Currently, the Basin is in attainment with the ambient air quality standards for carbon monoxide (CO), lead, sulfur dioxide (SO_2), and nitrogen dioxide (NO_2).

In 2011, the Basin exceeded federal standards for either ozone or PM2.5 at one or more locations on a total of 124 days, based on the current federal standards for 8-hour ozone and 24-hour PM2.5. Despite substantial improvements in air quality over the past few decades, some air monitoring stations in the Basin still exceed the NAAQS for ozone more frequently than any other stations in the U.S. In 2011, three of the top five stations that exceeded the 8-hour ozone NAAQS were located in the

Basin (Central San Bernardino Mountains, East San Bernardino Valley, and Metropolitan Riverside County).

PM2.5 in the Basin has improved significantly in recent years, with 2010 and 2011 being the cleanest years on record. In 2011, only one station in the Basin (Metropolitan Riverside County at Mira Loma) exceeded the annual PM2.5 NAAQS and the 98th percentile form of the 24-hour PM2.5 NAAQS, as well as the 3-year design values for these standards. Basin-wide, the federal PM2.5 24-hour standard level was exceeded in 2011 on 17 sampling days.

The Basin is currently in attainment for the federal standards for carbon monoxide (CO), lead, sulfur dioxide (SO_2), and nitrogen dioxide (NO_2). While the concentration level of the new 1-hour NO_2 federal standard (100 ppb) was exceeded in the Basin at two stations (Central Los Angeles and Long Beach) on the same day in 2011, the NAAQS NO_2 design value has not been exceeded. Therefore, the Basin remains in attainment of the NO_2 NAAQS.

The EPA designated the Los Angeles County portion of the Basin as nonattainment for the recently revised (2008) federal lead standard (0.15 µg/m3, rolling 3-month average), due to the addition of source-specific monitoring under the new federal regulation. This designation was based on two source-specific monitors in Vernon and the City of Industry exceeding the new standard in the 2007-2009 period of data used.

In Massachusetts v. Environmental Protection Agency (Docket No. 05–1120), argued November 29, 2006 and decided April 2, 2007, the U.S. Supreme Court held that not only did the EPA have authority to regulate greenhouse gases, but the EPA's reasons for not regulating this area did not fit the statutory requirements. As such, the U.S. Supreme Court ruled that the EPA should be required to regulate CO_2 and other greenhouse gases as pollutants under the federal Clean Air Act (CAA).

In response to the FY2008 Consolidations Appropriations Act (H.R. 2764; Public Law 110-161), EPA proposed a rule on March 10, 2009 that requires mandatory reporting of GHG emissions from large sources in the United States. On September 22, 2009, the Final Mandatory Reporting of GHG Rule was signed and published in the Federal Register on October 30, 2009. The rule became effective on December 29, 2009. This rule requires suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions to submit annual reports to EPA.

On December 7, 2009, the EPA Administrator signed two distinct findings under section 202(a) of the Clean Air Act. One is an endangerment finding that finds concentrations of the six GHGs in the atmosphere threaten the public health and welfare of current and future generations. The other is a cause or contribute finding, that finds emissions from new motor vehicles and new motor vehicle engines contribute to the GHG pollution which threatens public health and welfare. These actions will not themselves impose any requirements on industry or other entities. However, it is a prerequisite to finalizing the EPA’s proposed GHG emission standards

for light-duty vehicles, which were jointly proposed by the EPA and Department of Transportation on September 15, 2009.

On March 19, 2015, the Whitehouse announced that President Obama will issue an Executive Order that will cut the Federal Government's greenhouse gas (GHG) emissions 40 percent over the next decade from 2008 levels -- saving taxpayers up to $18 billion in avoided energy costs -- and increase the share of electricity the Federal Government consumes from renewable sources to 30 percent. Complementing this effort, several major Federal suppliers are announcing commitments to cut their own GHG emissions. The Administration hosted a roundtable that brought large Federal suppliers together to discuss the benefits of their GHG reduction targets or to make their first-ever corporate commitments to disclose emissions and set new reduction goals.

Together, the combined results of the Federal Government actions and new supplier commitments will reduce GHG emissions by 26 million metric tons by 2025 from 2008 levels, the equivalent of taking nearly 5.5 million cars off the road for a year. And to encourage continued progress across the Federal supply chain, the Administration is releasing a new scorecard to publicly track self-reported emissions disclosure and progress for all major Federal suppliers, who together represent more than $187 billion in Federal spending and account for more than 40 percent of all Federal contract dollars.

Since the Federal Government is the single largest consumer of energy in the Nation, Federal emissions reductions and progress across the supply chain will have broad impacts. The new commitments support the United States' international commitment to cut net GHG emissions 26-28 percent below 2005 levels by 2025, which President Obama first announced in November 2014 as part of an historic agreement with China. Additionally, the goals build on the strong progress made by Federal agencies during the first six years of the Administration under President Obama's 2009 Executive Order on Federal Leadership on Environmental, Energy and Economic Performance, including reducing Federal GHG emissions by 17 percent — which helped Federal agencies avoid $1.8 billion in cumulative energy costs — and increasing the share of renewable energy consumption to 9 percent.[1]

3. State – California Air Resources Board

The California Air Resources Board (CARB), which is a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, the CARB conducts research, sets the California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the State Implementation Plan (SIP). The California Ambient Air Quality Standards (CAAQS) for criteria pollutants are shown in Table 3. In addition, the CARB establishes emission

[1] Source: https://www.whitehouse.gov/the-press-office/2015/03/19/fact-sheet-reducing-greenhouse-gas-emissions-federal-government-and-acro.

standards for motor vehicles sold in California, consumer products (e.g., hairspray, aerosol paints, and barbeque lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

The South Coast Air Basin has been designated by the CARB as a nonattainment area for ozone, PM10 and PM2.5. Currently, the South Coast Air Basin is in attainment with the ambient air quality standards for CO, lead, SO_2, NO_2, and sulfates and is unclassified for visibility reducing particles and Hydrogen Sulfide.

On June 20, 2002, the CARB revised the PM10 annual average standard to 20 µg/m3 and established an annual average standard for PM2.5 of 12 µg/m3. These standards were approved by the Office of Administrative Law in June 2003 and are now effective. On September 27, 2007 CARB approved the South Coast Air Basin and the Coachella Valley 2007 Air Quality Management Plan for Attaining the Federal 8-hour Ozone and PM2.5 Standards. The plan projects attainment for the 8-hour Ozone standard by 2024 and the PM2.5 standard by 2015.

On December 12, 2008 the CARB adopted Resolution 08-43, which limits NOx, PM10 and PM2.5 emissions from on-road diesel truck fleets that operate in California. On October 12, 2009 Executive Order R-09-010 was adopted that codified Resolution 08-43 into Section 2025, title 13 of the California Code of Regulations. This regulation requires that by the year 2023 all commercial diesel trucks that operate in California shall meet model year 2010 (Tier 4) or latter emission standards. In the interim period, this regulation provides annual interim targets for fleet owners to meet. This regulation also provides a few exemptions including a onetime per year 3-day pass for trucks registered outside of California.

The CARB is also responsible for regulations pertaining to toxic air contaminants. The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in 1987 as a means to establish a formal air toxics emission inventory risk quantification program. AB 2588, as amended, establishes a process that requires stationary sources to report the type and quantities of certain substances their facilities routinely release into the South Coast Air Basin. The data is ranked by high, intermediate, and low categories, which are determined by: the potency, toxicity, quantity, volume, and proximity of the facility to nearby receptors.

The State currently has no regulations that establish ambient air quality standards for GHGs. However, the State has passed laws directing CARB to develop actions to reduce GHG emissions, which are listed below.

Assembly Bill 1493

California Assembly Bill 1493 enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2005, the CARB submitted a "waiver" request to the EPA from a portion of the federal Clean Air Act in order to allow the State to set more stringent tailpipe emission standards for CO2 and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the "waiver" request. On January 21, 2009, CARB

submitted a letter to the EPA administrator regarding the State's request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009.

Executive Order S-3-05

The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- 2010: Reduce greenhouse gas emissions to 2000 levels
- 2020: Reduce greenhouse gas emissions to 1990 levels
- 2050: Reduce greenhouse gas emissions to 80 percent below 1990 levels.

The executive order directed the secretary of the California Environmental Protection Agency (CalEPA) to coordinate a multi-agency effort to reduce GHG emissions to the target levels. To comply with the Executive Order, the secretary of CalEPA created the California Climate Action Team (CAT), made up of members from various state agencies and commissions. The team released its first report in March 2006. The report proposed to achieve the targets by building on the voluntary actions of businesses, local governments, and communities and through State incentive and regulatory programs.

Assembly Bill 32

In 2006, the California State Legislature adopted Assembly Bill 32 (AB 32), the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which will be phased in starting in 2012. Emission reductions shall include carbon sequestration projects that would remove carbon from the atmosphere and best management practices that are technologically feasible and cost effective.

On December 6, 2007 CARB released the calculated Year 1990 GHG emissions of 427 million metric tons of CO_2e ($MMTCO_2e$). The 2020 target of 427 $MMTCO_2e$ requires the reduction of 169 $MMTCO_2e$, or approximately 30 percent from the State's projected 2020 business as usual emissions of 596 $MMTCO_2e$ and the reduction of 42 $MMTCO_2e$, or almost 10 percent from the 2002-2004 average GHG emissions. Under AB 32, CARB was required to adopt regulations by January 1, 2011 to achieve reductions in GHGs to meet the 1990 cap by 2020. Early measures CARB took to lower GHG emissions included requiring operators of the largest industrial facilities that emit 25,000 metric tons of CO_2 in a calendar year to submit verification of GHG emissions by December 1, 2010. The CARB Board also approved nine discrete early action measures that include regulations affecting landfills, motor vehicle fuels, refrigerants in cars, port operations and other sources that became enforceable on or before January 1, 2010.

On December 11, 2008 the CARB Board approved a Scoping Plan, with final adoption May 11, 2009 that proposed a variety of measures including direct regulations, alternative compliance mechanisms, monetary and non-monetary

incentives, voluntary actions, a market-based cap-and-trade system, and a fee regulation to fund the program. In current pending litigation, Association of Irritated Residents v. California Air Resources Board, a California State trial court found that the analysis of the alternatives identified in the AB 32 Scoping Plan Functional Equivalent Document (FED) was not sufficient for informed decision-making and public review under CEQA. In response, CARB has appealed the decision. In addition, CARB prepared the *Supplement to the AB 32 Scoping Plan Functional Equivalent Document,* June 13, 2011. On August 24, 2011 CARB recertified the complete AB 32 Scoping Plan Functional Equivalent Environmental Document revised by the Final Supplement. In December, 2011 the Final Supplement was accepted as sufficient to fulfill the trial court's March order.

While local government operations were not accounted for in achieving the 2020 emissions reduction, local land use changes are estimated to result in a reduction of 5 metric tons of CO_2e, which is approximately 3 percent of the 2020 GHG emissions reduction goal. In recognition of the critical role local governments will play in successful implementation of AB 32, CARB is recommending GHG reduction goals of 15 percent of 2010 levels by 2020 to ensure that municipal and community-wide emissions match the state's reduction target. According to the Measure Documentation Supplement to the Scoping Plan, local government actions and targets are anticipated to reduce vehicle miles by approximately 2 percent through land use planning, resulting in a potential GHG reduction of 2 metric tons of CO_2e (or approximately 1.2 percent of the GHG reduction target).

In May 2014, CARB released its *First Update to the Climate Change Scoping Plan* (CARB 2014). This *Update* identifies the next steps for California's leadership on climate change. While California continues on its path to meet the near-term 2020 greenhouse gas limit, it must also set a clear path toward long-term, deep GHG emission reductions. This report highlights California's success to date in reducing its GHG emissions and lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050.

On January 20, 2017, CARB announced its release of a proposed plan to reduce greenhouse gas emissions by 40 percent below 1990 levels by 2030 – the most ambitious target in North America. The plan builds on the state's successful efforts to reduce emissions and outlines the most effective ways to reach the 2030 goal, including continuing California's Cap-and-Trade Program. The Final 2017 Scoping Plan Update will be released in late March and be considered for approval by the Board in late April.

SB 32. SB 32, Pavley. California Global Warming Solutions Act of 2006.

(1) The California Global Warming Solutions Act of 2006 designates the State Air Resources Board as the state agency charged with monitoring and regulating sources of emissions of greenhouse gases. The state board is required to approve a statewide greenhouse gas emissions limit

equivalent to the statewide greenhouse gas emissions level in 1990 to be achieved by 2020 and to adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective greenhouse gas emissions reductions. This bill would require the state board to ensure that statewide greenhouse gas emissions are reduced to 40% below the 1990 level by 2030.

(2) This bill would become operative only if AB 197 of the 2015–16 Regular Session is enacted and becomes effective on or before January 1, 2017. AB 197 requires that the California Air Resources Board, which directs implementation of emission-reduction programs, should target direct reductions at both stationary and mobile sources.

Senate Bill 1368

Senate Bill 1368 (SB 1368) is the companion Bill of AB 32 and was adopted September, 2006. SB 1368 requires the California Public Utilities Commission (CPUC) to establish a performance standard for baseload generation of GHG emissions by investor-owned utilities by February 1, 2007 and for local publicly owned utilities by June 30, 2007. These standards could not exceed the GHG emissions rate from a baseload combined-cycle, natural gas-fired plant. Furthermore, the legislation states that all electricity provided to the State, including imported electricity, must be generated by plants that meet the standards set by California Public Utilities Commission (CPUC) and California Energy Commission (CEC).

Executive Order S-1-07

Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

On April 23, 2009 CARB approved the proposed regulation to implement the low carbon fuel standard. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. The low carbon fuel standard is designed to provide a framework that uses market mechanisms to spur the steady introduction of lower carbon fuels. The framework establishes performance standards that fuel producers and importers must meet each year beginning in 2011. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are "back-loaded", with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

Senate Bill 97

Senate Bill 97 (SB 97) was adopted August 2007 and acknowledges that climate change is a prominent environmental issue that requires analysis under CEQA. SB 97 directed the Governor's Office of Planning and Research (OPR), which is part of the State Natural Resources Agency, to prepare, develop, and transmit to CARB guidelines for the feasible mitigation of GHG emissions or the effects of GHG emissions, as required by CEQA, by July 1, 2009. The Natural Resources Agency was required to certify and adopt those guidelines by January 1, 2010.

Pursuant to the requirements of SB 97 as stated above, on December 30, 2009 the Natural Resources Agency adopted amendments to the state CEQA guidelines that address GHG emissions. The CEQA Guidelines Amendments changed 14 sections of the CEQA Guidelines and incorporate GHG language throughout the Guidelines. However, no GHG emissions thresholds of significance were provided and no specific mitigation measures were identified. The GHG emission reduction amendments went into effect on March 18, 2010 and are summarized below:

- Climate action plans and other greenhouse gas reduction plans can be used to determine whether a project has significant impacts, based upon its compliance with the plan.
- Local governments are encouraged to quantify the greenhouse gas emissions of proposed projects, noting that they have the freedom to select the models and methodologies that best meet their needs and circumstances. The section also recommends consideration of several qualitative factors that may be used in the determination of significance, such as the extent to which the given project complies with state, regional, or local GHG reduction plans and policies. OPR does not set or dictate specific thresholds of significance. Consistent with existing CEQA Guidelines, OPR encourages local governments to develop and publish their own thresholds of significance for GHG impacts assessment.
- When creating their own thresholds of significance, local governments may consider the thresholds of significance adopted or recommended by other public agencies, or recommended by experts.
- New amendments include guidelines for determining methods to mitigate the effects of greenhouse gas emissions in Appendix F of the CEQA Guidelines.

- OPR is clear to state that "to qualify as mitigation, specific measures from an existing plan must be identified and incorporated into the project; general compliance with a plan, by itself, is not mitigation."
- OPR's emphasizes the advantages of analyzing GHG impacts on an institutional, programmatic level. OPR therefore approves tiering of environmental analyses and highlights some benefits of such an approach.
- Environmental impact reports (EIRs) must specifically consider a project's energy use and energy efficiency potential.

Senate Bills 1078, 107, and X1-2 and Executive Orders S-14-08 and S-21-09
Senate Bill 1078 (SB 1078) requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 20 percent of their supply from renewable sources by 2017. Senate Bill 107 (SB 107) changed the target date to 2010. Executive Order S-14-08 was signed on November 2008 and expands the State's Renewable Energy Standard to 33 percent renewable energy by 2020. Executive Order S-21-09 directed CARB to adopt regulations by July 31, 2010 to enforce S-14-08. Senate Bill X1-2 codifies the 33 percent renewable energy requirement by 2020.

Senate Bill 375
Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. CARB is also charged with reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. For the SCAG region, the targets set by CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 13 percent below 2005 per capita GHG emissions levels by 2035. On April 4, 2012, SCAG adopted the 2012-2035 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), which meets the CARB emission reduction requirements. The Housing Element Update is required by the State to be completed within 18 months after RTP/SCS adoption or by October 2013.

On April 7, 2016, SCAG's Regional Council adopted the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016 RTP/SCS or Plan). The Plan is a long-range visioning plan that balances future mobility and

housing needs with economic, environmental and public health goals. The Plan charts a course for closely integrating land use and transportation – so that the region can grow smartly and sustainably. It outlines more than $556.5 billion in transportation system investments through 2040. The Plan was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura. In June 2016, SCAG received its conformity determination from the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) indicating that all air quality conformity requirements for the 2016 RTP/SCS and associated 2015 FTIP Consistency Amendment through Amendment 15-12 have been met.

Senate Bill X7-7

Senate Bill X7-7 (SB X7-7), enacted on November 9, 2009, mandates water conservation targets and efficiency improvements for urban and agricultural water suppliers. SB X7-7 requires the Department of Water Resources (DWR) to develop a task force and technical panel to develop alternative best management practices for the water sector. In addition SB X7-7 required the DWR to develop criteria for baseline uses for residential, commercial, and industrial uses for both indoor and landscaped area uses. The DWR was also required to develop targets and regulations that achieve a statewide 20 percent reduction in water usage.

Assembly Bill 939 and Senate Bill 1374

Assembly Bill 939 (AB 939) requires that each jurisdiction in California to divert at least 50 percent of its waste away from landfills, whether through waste reduction, recycling or other means. Senate Bill 1374 (SB 1374) requires the California Integrated Waste Management Board to adopt a model ordinance by March 1, 2004 suitable for adoption by any local agency to require 50 to 75 percent diversion of construction and demolition of waste materials from landfills.

California Code of Regulations (CCR) Title 24, Part 6

CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

The Energy Commission adopted 2008 Standards on April 23, 2008 and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009. CalEEMod modeling

defaults to 2008 standards. 2013 Standards have been approved and are effective July 1, 2014.

California Code of Regulations (CCR) Title 24, Part 11
CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

The Energy Commission adopted 2008 Standards on April 23, 2008 and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009. 2013 Standards have been approved and were effective July 1, 2014. 2016 Standards were adopted January 1, 2017.

California Code of Regulations (CCR) Title 24, Part 11

All buildings for which an application for a building permit is submitted on or after January 1, 2017 must follow the 2016 standards. The 2016 standards are estimated to be approximately 28 percent more efficient than the 2013 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

California Green Building Standards
On January 12, 2010, the State Building Standards Commission unanimously adopted updates to the California Green Building Standards Code, which went into effect on January 1, 2011.

2016 CALGreen Code: During the 2016-2017 fiscal year, the Department of Housing and Community Development (HCD) updated CALGreen through the 2015 Triennial Code Adoption Cycle. HCD adopted three new definitions related to electric vehicle charging regulations. These definitions provided clarity to the code user as to the differences between an electric vehicle charging space and an electric vehicle charging station. HCD replaced the term "electric vehicle charging stations" with "electric vehicle charging spaces" since the term "electric vehicle charging space" better describes a space available for future installation of electric vehicle supply equipment, but with no electric vehicle charger installed. HCD also increased the required construction waste reduction from 50 percent to 65 percent of the total building site waste. This increase aids in meeting CalRecycle's statewide solid waste recycling goal of 75 percent for 2020 as stated in Chapter 476, Statutes of 2011 (AB 341). HCD adopted new regulations requiring recycling areas for multifamily projects of five or more dwelling units. This regulation requires developers to provide

readily accessible areas adequate in size to accommodate containers for depositing, storage and collection of non-hazardous materials (including organic waste) for recycling. This requirement assists businesses that were required as of April 1, 2016, to meet the requirements of Chapter 727, Statutes of 2014 (AB 1826). HCD adopted new regulations to require information on photovoltaic systems and electric vehicle chargers to be included in operation and maintenance manuals. Currently, CALGreen section 4.410.1 Item 2(a) requires operation and maintenance instructions for equipment and appliances. Photovoltaic systems and electric vehicle chargers are systems that play an important role in many households in California, and their importance is increasing every day. HCD incorporated these two terms in the existing language in order to provide clarity to code users as to additional systems requiring operation and maintenance instructions. HCD updated the reference to Clean Air Standards of the United States Environmental Protection Agency applicable to woodstoves and pellet stoves. HCD also adopted a new requirement for woodstoves and pellet stoves to have a permanent label indicating they are certified to meet the emission limits. This requirement provides clarity to the code user and is consistent with the United States Environmental Protection Agency's New Source Performance Standards. HCD updated the list of standards which can be used for verification of compliance for exterior grade composite wood products. This list now includes four standards from the Canadian Standards Association (CSA): CSA O121, CSA O151, CSA O153 and CSA O325. HCD updated heating and air-conditioning system design references to the ANSI/ACCA 2 Manual J, ANSI/ACCA 1 Manual D, and ANSI/ACCA 3 Manual S to the most recent versions approved by ANSI. HCD adopted a new elective measure for hot water recirculation systems for water conservation. The United States Department of Energy estimates that 3,600 to 12,000 gallons of water per year can be saved by the typical household (with four points of hot water use) if a hot water recirculation system is installed.

Executive Order B-30-15
Executive Order B-30-15, establishing a new interim statewide greenhouse gas emission reduction target to reduce greenhouse gas emissions to 40 percent below 1990 levels by 2030, was signed by Governor Brown in April 2015.

Executive Order B-29-15
Executive Order B-29-15, mandates a statewide 25% reduction in potable water usage. EO B-29-15 signed into law on April 1, 2015.

Executive Order B-37-16
Executive Order B-29-15, continuing the State's adopted water reductions, was signed into law on May 9, 2016. The water reductions build off the mandatory 25% percent reduction called for in EO B-29-15.

4. Regional

The SCAQMD is the agency principally responsible for comprehensive air pollution control in the South Coast Air Basin. To that end, as a regional agency, the SCAQMD

works directly with the Southern California Association of Governments (SCAG), county transportation commissions, and local governments and cooperates actively with all federal and state agencies.

South Coast Air Quality Management District

The SCAQMD develops rules and regulations, establishes permitting requirements for stationary sources, inspects emission sources, and enforces such measures through educational programs or fines, when necessary. The SCAQMD is directly responsible for reducing emissions from stationary, mobile, and indirect sources. It has responded to this requirement by preparing a sequence of AQMPs. On June 30, 2016, the SCAQMD released its Draft 2016 AQMP. The 2016 AQMP is a regional blueprint for achieving the federal air quality standards and healthful air.

The 2016 AQMP includes both stationary and mobile source strategies to ensure that rapidly approaching attainment deadlines are met, that public health is protected to the maximum extent feasible, and that the region is not faced with burdensome sanctions if the Plan is not approved or if the NAAQS are not met on time. As with every AQMP, a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures is updated with the latest data and methods. The most significant air quality challenge in the Basin is to reduce nitrogen oxide (NOx) emissions sufficiently to meet the upcoming ozone standard deadlines. On March 23, 2017 CARB approved the 2016 AQMP. The primary goal of this Air Quality Management Plan is to meet clean air standards and protect public health, including ensuring benefits to environmental justice and disadvantaged communities. Now that the plan has been approved by CARB, it has been forwarded to the U.S. Environmental Protection Agency for its review. If approved by EPA, the plan becomes federally enforceable.

A revised draft of the 2012 AQMP was released on September, 2012, and was adopted by the SCAQMD Board on December 7, 2012. The 2012 AQMP is now awaiting approval from CARB and the U.S. EPA. The 2012 AQMP is being prepared in order to meet the federal Clean Air Act requirement that all 24-hour PM2.5 non-attainment areas prepare a SIP, which was required to be submitted to the U.S. EPA by December 14, 2012 and demonstrate attainment with the 24-hour PM2.5 standard by 2014. The 2012 AQMP demonstrates attainment of the federal 24-hour PM2.5 standard by 2014 in the Basin through adoption of all feasible measures, and therefore, no extension of the attainment date is needed.

The 2007 AQMP demonstrated attainment with the 1997 8-hour ozone (80 ppb) standard by 2023, through implementation of future improvements in control techniques and technologies. These “black box” emissions reductions represent 65 percent of the remaining NOx emission reductions by 2023 in order to show attainment with the 1997 8-hour ozone NAAQS. Given the magnitude of these needed emissions reductions, additional NOx control measures have been provided in this AQMP even though the primary purpose of this AQMP is to show compliance with 24-hour PM2.5 emissions standards.

The 2012 AQMP built upon the approaches taken in the 2007 AQMP for the attainment of federal PM and ozone standards, and highlights the significant amount of reductions needed and the need to engage in interagency coordinated planning of mobile sources to meet all of the federal criteria pollutant standards. Compared with the 2007 AQMP, the 2012 AQMP utilizes revised emissions inventory projections that use 2008 as the base year. On-road emissions are calculated using CARB EMFAC2011 emission factors and the transportation activity data provided by SCAG from their 2012 Regional Transportation Plan (2012 RTP). Off-road emissions were updated using CARB's 2011 In-Use Off-Road Fleet Inventory Model. Since the 2007 AQMP was finalized new area source categories such as liquid propane gas (LPG) transmission losses, storage tank and pipeline cleaning and degassing, and architectural colorants, were created and included in the emissions inventories. The 2012 AQMP also includes analysis of several additional sources of GHG emissions such as landfills and could also assist in reaching the GHG target goals in the AB32 Scoping Plan.

The control measures in the 2012 AQMP consist of three components: (1) Basin-wide and episodic short-term PM2.5 measures; (2) Section 182(e)(5) implementation measures; and (3) Transportation control measures. Many of the control measures are not based on command and control regulations, but instead focus on incentives, outreach, and education to bring about emissions reductions through voluntary participation and behavioral changes. More broadly, a transition to zero- and near-zero emission technologies is necessary to meet 2023 and 2032 air quality standards and 2050 climate goals. Many of the same technologies will address both air quality and climate needs.

During construction and operation, the project must comply with applicable rules and regulations. The following are rules the project may be required to comply with, either directly, or indirectly:

SCAQMD Rule 402 prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

SCAQMD Rule 403 governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.

Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive

dust from creating a nuisance off-site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM_{10} component). Compliance with these rules would reduce impacts on nearby sensitive receptors. Rule 403 measures may include but are not limited to the following:

- Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Water active sites at least three times daily. (Locations where grading is to occur will be thoroughly watered prior to earthmoving.)
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 0.6 meters (2 feet) of freeboard (vertical space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code section 23114.
- Reduce traffic speeds on all unpaved roads to 15 miles per hour (mph) or less.
- Suspension of all grading activities when wind speeds (including instantaneous wind gusts) exceed 25 mph.
- Bumper strips or similar best management practices shall be provided where vehicles enter and exit the construction site onto paved roads or wash off trucks and any equipment leaving the site each trip.
- Replanting disturbed areas as soon as practical.
- During all construction activities, construction contractors shall sweep on-site and off-site streets if silt is carried to adjacent public thoroughfares, to reduce the amount of particulate matter on public streets. All sweepers shall be compliant with SCAQMD Rule 1186.1, Less Polluting Sweepers.

SCAQMD Rule 445 prohibits permanently installed wood burning devices into any new development. A wood burning device means any fireplace, wood burning heater, or pellet-fueled wood heater, or any similarly enclosed, permanently installed, indoor or outdoor device burning any solid fuel for aesthetic or space-heating purposes, which has a heat input of less than one million British Thermal Units (BTUs) per hour.

SCAQMD Rule 481 applies to all spray painting and spray coating operations and equipment. The rule states that a person shall not use or operate any spray painting or spray coating equipment unless one of the following conditions is met:

(1) The spray coating equipment is operated inside a control enclosure, which is approved by the Executive Officer. Any control enclosure for which an application for permit for new construction, alteration, or change of ownership or location is submitted after the date of adoption of this rule shall be exhausted only through filters at a design face velocity not less than 100 feet per minute nor greater than 300 feet per minute, or through a water wash system designed to be equally effective for the purpose of air pollution control.

(2) Coatings are applied with high-volume low-pressure, electrostatic and/or airless spray equipment.

(3) An alternative method of coating application or control is used which has effectiveness equal to or greater than the equipment specified in the rule.

SCAQMD Rule 1108 governs the sale, use, and manufacturing of asphalt and limits the volatile organic compound (VOC) content in asphalt used in the South Coast Air Basin. This rule would regulate the VOC content of asphalt used during construction. Therefore, all asphalt used during construction of the project must comply with SCAQMD Rule 1108.

SCAQMD Rule 1113 governs the sale, use, and manufacturing of architectural coating and limits the VOC content in paints and paint solvents. This rule regulates the VOC content of paints available during construction. Therefore, all paints and solvents used during construction and operation of the project must comply with SCAQMD Rule 1113.

SCAQMD Rule 1143 governs the manufacture, sale, and use of paint thinners and solvents used in thinning of coating materials, cleaning of coating application equipment, and other solvent cleaning operations by limiting their VOC content. This rule regulates the VOC content of solvents used during construction. Solvents used during the construction phase must comply with this rule.

SCAQMD Rule 1186 limits the presence of fugitive dust on paved and unpaved roads and sets certification protocols and requirements for street sweepers that are under contract to provide sweeping services to any federal, state, county, agency or special district such as water, air, sanitation, transit, or school district.

SCAQMD Rule 1303 governs the permitting of re-located or new major emission sources, requiring Best Available Control Measures and setting significance limits for PM_{10} among other pollutants.

SCAQMD Rule 1401, New Source Review of Toxic Air Contaminants, specifies limits for maximum individual cancer risk, cancer burden, and non-cancer acute and chronic hazard index from new permit units, relocations, or modifications to existing permit units, which emit toxic air contaminants.

SCAQMD Rule 2202, On-Road Motor Vehicle Mitigation Options, is to provide employers with a menu of options to reduce mobile source emissions generated from employee commutes, to comply with federal and state Clean Air Act requirements, Health & Safety Code Section 40458, and Section 182(d)(1)(B) of the federal Clean Air Act. It applies to any employer who employs 250 or more employees on a full or part-time basis at a worksite for a consecutive six-month period calculated as a monthly average.

In order to assist local agencies with direction on GHG emissions, the SCAQMD organized a working group and adopted Rules 2700, 2701, 2702, and 3002 which are described below.

Rules 2700 and 2701

The SCAQMD adopted Rules 2700 and 2701 on December 5, 2008, which establishes the administrative structure for a voluntary program designed to quantify GHG emission reductions. Rule 2700 establishes definitions for the various terms used in Regulation XXVII – Global Climate Change. Rule 2701 provides specific protocols for private parties to follow to generate certified GHG emission reductions for projects within the district. Approved protocols include forest projects, urban tree planting, and manure management. The SCAQMD is currently developing additional protocols for other reduction measures. For a GHG emission reduction project to qualify, it must be verified and certified by the SCAQMD Executive Officer, who has 60 days to approve or deny the Plan to reduce GHG emissions. Upon approval of the Plan, the Executive Officer issues required to issue a certified receipt of the GHG emission reductions within 90 days.

Rule 2702

The SCAQMD adopted Rule 2702 on February 6, 2009, which establishes a voluntary air quality investment program from which SCAQMD can collect funds from parties that desire certified GHG emission reductions, pool those funds, and use them to purchase or fund GHG emission reduction projects within two years, unless extended by the Governing Board. Priority will be given to projects that result in co-benefit emission reductions of GHG emissions and criteria or toxic air pollutants within environmental justice areas. Further, this voluntary program may compete with the cap-and-trade program identified for implementation in CARB's Scoping Plan, or a Federal cap and trade program.

Rule 3002

The SCAQMD amended Rule 3002 on November 5, 2010 to include facilities that emit greater than 100,000 tons per year of CO_2e are required to apply for a Title V permit by July 1, 2011. A Title V permit is for facilities that are considered major sources of emissions.

Although the SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate air quality issues associated with plans and new development projects throughout the South Coast Air Basin. Instead, this is controlled through local jurisdictions in accordance with the California Environmental Quality Act (CEQA). In order to assist local jurisdictions with air quality compliance issues the CEQA Air Quality Handbook (SCAQMD CEQA Handbook) prepared by the SCAQMD (1993) with the most current updates found at http://www.aqmd.gov/ceqa/hdbk.html, was developed in accordance with the projections and programs of the AQMP. The purpose of the SCAQMD CEQA Handbook is to assist Lead Agencies, as well as consultants, project proponents, and other interested parties in evaluating a proposed project's potential air quality impacts. Specifically, the SCAQMD CEQA Handbook explains the procedures that the SCAQMD recommends be followed for the environmental review process required by CEQA. The SCAQMD CEQA Handbook provides direction on how to evaluate potential air quality impacts, how to determine whether these impacts are significant, and how to mitigate these impacts. The SCAQMD intends that by providing this guidance, the air quality impacts of plans and development proposals will be analyzed accurately

and consistently throughout the South Coast Air Basin, and adverse impacts will be minimized.

SCAQMD Stakeholder Working Group

Since neither CARB nor the OPR has developed GHG emissions threshold, the SCAQMD formed a Working Group to develop significance thresholds related to GHG emissions. At the September 28, 2010 Working Group meeting, the SCAQMD released its most current version of the draft GHG emissions thresholds, which recommends a tiered approach that provides a quantitative annual thresholds of 10,000 MTCO2e for industrial uses.

Southern California Association of Governments

The SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG is the Federally designated MPO for the majority of the southern California region and is the largest MPO in the nation. With respect to air quality planning, SCAG has prepared the Regional Transportation Plan and Regional Transportation Improvement Plan (RTIP), which addresses regional development and growth forecasts. These plans form the basis for the land use and transportation components of the AQMP, which are utilized in the preparation of air quality forecasts and in the consistency analysis included in the AQMP. The Regional Transportation Plan, Regional Transportation Improvement Plan, and AQMP are based on projections originating within the City and County General Plans.

5. Local - City of Los Angeles

Local jurisdictions, such as the City of Los Angeles, have the authority and responsibility to reduce air pollution through its police power and decision-making authority. Specifically, the City is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The City is also responsible for the implementation of transportation control measures as outlined in the 2016 AQMP. Examples of such measures include bus turnouts, energy-efficient streetlights, and synchronized traffic signals. In accordance with CEQA requirements and the CEQA review process, the City assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts by conditioning discretionary permits, and monitors and enforces implementation of such mitigation.

The City relies on the expertise of the SCAQMD and utilizes the SCAQMD CEQA Air Quality Handbook as the guidance document for the environmental review of plans and development proposals within its jurisdiction.

The City of Los Angeles General Plan Air Quality Element, adopted November 24, 1992 contains the following air quality-related goals, objectives, and policies that are applicable to the proposed project:

Goal 1: Good air quality and mobility in an environment of continued population growth and healthy economic structure.

Objective 1.1 It is the objective of the City of Los Angeles to reduce air pollutants consistent with the Regional Air Quality Management Plan (AQMP), increase traffic mobility, and sustain economic growth citywide.

Objective 1.2 It is the objective of the City of Los Angeles to demonstrate the City's commitment to air quality improvement through the development and revision of the City's General Plan Elements as appropriate, and to work cooperatively with federal, state, regional, and other local jurisdiction in attaining clean air.

Policy 1.2.1 Implement the Air Quality Element policies set forth in this Chapter through adoption of the Clean Air Program which shall be amended as Council sees necessary without General Plan Amendment.

Policy 1.2.2 Pursue the City's air quality objectives in cooperation with regional and other local jurisdictions.

Objective 1.3 It is the objective of the City of Los Angles to reduce particulate air pollutants emanating from unpaved areas, parking lots, and construction sites.

Policy 1.3.1 Minimize particulate emissions from construction sites.

Policy 1.3.2 Minimize particulate emissions from unpaved roads and parking lots which are associated with vehicular traffic.

Goal 2: Less reliance on single-occupant vehicles with fewer commute and non-work trips.

Objective 2.1 It is the objective of the City of Los Angeles to reduce work trips as a step towards attaining trip reduction objective necessary to achieve regional air quality goals.

Goal 4: Minimal impact of existing land use pattern and future land use development on air quality by addressing the relationship between land use, transportation, and air quality.

Objective 4.1 It is the objective of the City of Los Angeles to include regional attainment of ambient air quality standards as a primary consideration in land use planning.

Objective 4.2 It is the objective of the City of Los Angeles to reduce vehicle trips and vehicle miles traveled associated with land use patterns.

Goal 5: Energy efficiency through land use and transportation planning, the use of renewable resources and less-polluting fuels, and the implementation of conservation measures including passive methods such as site orientation and tree planting.

Objective 5.1 It is the objective of the City of Los Angeles to increase energy efficiency of City facilities and private developments.

Objective 5.3 It is the objective of the City of Los Angeles to reduce the use of polluting fuels in stationary sources.

B. Monitored Air Quality

The air quality at any site is dependent on the regional air quality and local pollutant sources. Regional air quality is determined by the release of pollutants throughout the air basin. Estimates of the existing emissions in the Basin provided in the Final 2016 Air Quality Management Plan prepared by SCAQMD (March 2017) indicate that collectively, mobile sources account for 60 percent of the VOC, 90 percent of the NOx emissions, 95 percent of the CO emissions and 34 percent of directly emitted PM2.5, with another 13 percent of PM2.5 from road dust.

The SCAQMD has divided the South Coast Air Basin into 38 air-monitoring areas with a designated ambient air monitoring station representative of each area. The project site is located in the Central Los Angeles Air Monitoring Area (Source Receptor Area [SRA] 1), which is located in Los Angeles County and covers from the Glendale on the north, Slauson Avenue on the south, the Interstate 710 on the east, and Beverly Hills to the west. The nearest air monitoring station to the project site is the Los Angeles-North Main Street Monitoring Station (Los Angeles Station). The Los Angeles Station is located approximately 1.46 miles east of the project site at 1630 N Main Street, Los Angeles. Table 5 presents the monitored pollutant levels from the Los Angeles Station. However, it should be noted that due to the air monitoring station distance from the project site, recorded air pollution levels at the air monitoring station reflect with varying degrees of accuracy, local air quality conditions at the project site.

Table 5 summarizes 2015 through 2017 published monitoring data from the air monitoring stations, which is the most recent 3-year period available. The data shows that during the past few years, the project area has exceeded the ozone and particulate matter (PM10 and PM2.5) standards.

Ozone

The monitoring data presented in Table 5 shows that ozone is the air pollutants of primary concern in the project area. It is a secondary pollutant as it is not directly emitted. Ozone is the result of chemical reactions between other pollutants, most importantly hydrocarbons and NO_2, which occur only in the presence of bright sunlight. Pollutants emitted from upwind cities react during transport downwind to produce the oxidant concentrations experienced in the area. Many areas of the SCAQMD contribute to the ozone levels experienced at the monitoring station, with the more significant areas being those directly upwind.

During the 2015 to 2017 monitoring period, the State 1-hour concentration standard for ozone was exceeded between two and six days each year at the Los Angeles Station. The State 8-hour ozone standard has been exceeded between four and 16 days each year over the past three years at the Los Angeles Station. The Federal 8-hour ozone standard was exceeded between four and 14 days each year over the past three years at the Los Angeles Station.

Carbon Monoxide
CO is another important pollutant that is due mainly to motor vehicles. The Los Angeles Station did not record an exceedance of the state or federal 8-hour CO standards for the last three years.

Nitrogen Dioxide
The Los Angeles Station did not record an exceedance of the State or Federal NO_2 standards for the last three years.

Particulate Matter
The State 24-hour concentration standards for PM10 have been estimated to have been exceeded between 21 and 30 days each year over the past three years at the Los Angeles Station. Over the past three years, the Los Angeles Station did not record an exceedance of the Federal 24-hour standards for PM10.

The Federal 24 hour standard for PM2.5 has been estimated to have been exceeded between two and seven days each year over the past three years at the Los Angeles Station. There does not appear to be a noticeable trend for PM10 or PM2.5 in either maximum particulate concentrations or days of exceedances in the area. Particulate levels in the area are due to natural sources, grading operations, and motor vehicles.

According to the EPA, some people are much more sensitive than others to breathing fine particles (PM10 and PM2.5). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM10 and PM2.5. Other groups considered sensitive are smokers and people who cannot breathe well through their noses. Exercising athletes are also considered sensitive, because many breathe through their mouths during exercise.

Table 3

State and Federal Criteria Pollutant Standards[1]

Air Pollutant	Concentration / Averaging Time		Most Relevant Effects
	California Standards	Federal Primary Standards	
Ozone (O_3)	0.09 ppm/1-hour 0.07 ppm/8-hour	0.07 ppm/8-hour	(a) Decline in pulmonary function and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage.
Carbon Monoxide (CO)	20.0 ppm/1-hour 9.0 ppm/8-hour	35.0 ppm/1-hour 9.0 ppm/8-hour	(a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses.
Nitrogen Dioxide (NO_2)	0.18 ppm/1-hour 0.03 ppm/annual	100 ppb/1-hour 0.053 ppm/annual	(a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration.
Sulfur Dioxide (SO_2)	0.25 ppm/1-hour 0.04 ppm/24-hour	75 ppb/1-hour 0.14 ppm/24-hour	(a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma.
Suspended Particulate Matter (PM_{10})	50 µg/m^3/24-hour 20 µg/m^3/annual	150 µg/m^3/24-hour	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in children; (c) Increased risk of premature death from heart or lung diseases in elderly.
Suspended Particulate Matter ($PM_{2.5}$)	12 µg/m^3 / annual	35 µg/m^3/24-hour 12 µg/m^3/annual	
Sulfates	25 µg/m^3/24-hour	No Federal Standards	(a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; (f) property damage.
Lead	1.5 µg/m^3/30-day	0.15 µg/m^3/3-month rolling	(a) Learning disabilities; (b) Impairment of blood formation and nerve conduction.
Visibility Reducing Particles	Extinction coefficient of 0.23 per kilometer-visibility of 10 miles or more due to particles when humidity is less than 70 percent.	No Federal Standards	Visibility impairment on days when relative humidity is less than 70 percent.

[1] Source: http://www.arb.ca.gov/research/aaqs/aaqs2.pdf .

Table 4

South Coast Air Basin Attainment Status

Pollutant	State Status[1]	National Status[2]
Ozone	Nonattainment	Nonattainment (Extreme)
Carbon monoxide	Attainment	Attainment/Unclassified
Nitrogen dioxide	Attainment	Attainment/Unclassified
Sulfur dioxide	Attainment	Attainment/Unclassified
PM10	Nonattainment	Attainment (Maintenance)
PM2.5	Nonattainment	Nonattainment (Moderate)

[1] Source of State status: California Air Resources Board 2015.

[2] Source of National status: http://www3.epa.gov/airquality/greenbk/index.html and CARB 2015.

Table 5

Air Quality Monitoring Summary[1]

Pollutant (Standard)[2]	Year		
	2015	2016	2017
Ozone:			
Maximum 1-Hour Concentration (ppm)	0.104	0.103	0.116
Days > CAAQS (0.09 ppm)	**2**	**2**	**6**
Maximum 8-Hour Concentration (ppm)	0.074	0.078	0.086
Days > NAAQS (0.070 ppm)	**6**	**4**	**14**
Days > CAAQS (0.070 ppm)	**6**	**4**	**16**
Carbon Monoxide:[3]			
Maximum 8-Hour Concentration (ppm)	*	*	*
Days > NAAQS (9 ppm)	0	0	0
Nitrogen Dioxide:			
Maximum 1-Hour Concentration (ppm)	0.0791	0.0647	0.0806
Days > CAAQS (0.18 ppm)	0	0	0
Inhalable Particulates (PM10):			
Maximum 24-Hour Concentration (ug/m^3)	88.5	74.6	96.2
Days > NAAQS (150 ug/m^3)	0	0	0
Days > CAAQS (50 ug/m^3)	**30**	**21**	**40**
Annual Average (ug/m^3)	27.1	25.8	25.7
Ultra-Fine Particulates (PM2.5):			
Maximum 24-Hour Concentration (ug/m^3)	70.3	49.4	61.7
Days > NAAQS (35 ug/m^3)	**7**	**2**	**6**
Annual Average (ug/m^3)	12.6	12	16.3

* means no data available

[1] Source: http://www.arb.ca.gov/adam/topfour/topfour1.php

Data from the Los Angeles-North Main Street monitoring station unless otherwise noted.

[2] CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million

V. AIR QUALITY STANDARDS

A. Significance Thresholds

1. Appendix G of the State CEQA Guidelines

Appendix G of the State CEQA Guidelines states that, where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make a significance determination. Pursuant to Appendix G, the Project would result in a significant impact related to air quality if it would:

- Conflict with or obstruct the implementation of the applicable air quality plan;
- Violate any air quality standard or contribute substantially to an existing or projected air quality violation;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);
- Expose sensitive receptors to substantial pollutant concentrations; or
- Create objectionable odors affecting a substantial number of people.

The CEQA Guidelines Section 15064.7 provides the significance criteria established by the applicable air quality management district or air pollution control district, when available, may be relied upon to make determinations of significance. The potential air quality impacts of the Project are, therefore, evaluated according to thresholds developed by SCAQMD in their CEQA Air Quality Handbook, Air Quality Analysis Guidance Handbook, and subsequent guidance, which are listed below.[2] Therefore, the Project would result in a potentially significant impact to air quality if it would:

AIR-1: Conflict with or obstruct the implementation of the applicable air quality plan;

AIR-2: Violate any air quality standard or contribute substantially to an existing or projected air quality violation as a result of:

- Criteria pollutant emissions during construction (direct and indirect) in excess of the SCAQMD's regional significance thresholds,
- Criteria pollutant emissions during operation (direct and indirect) in excess of the SCAQMD's regional significance thresholds.

AIR-3: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal

[2] While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from industrial land use projects such as the Project. As a result, lead emissions are not further evaluated herein.

or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);

AIR-4: Expose sensitive receptors to substantial pollutant concentrations that would:

- Exceed SCAQMD's localized significance thresholds,
- Cause or contribute to the formation of CO hotspots.

AIR-5: Create objectionable odors affecting a substantial number of people.

2. LA CEQA Thresholds Guide

The LA CEQA Thresholds Guide defers to threshold guidance established by the SCAQMD, in particular to the CEQA Air Quality Handbook, with respect to construction-related air quality emissions. Further, the LA CEQA Thresholds Guide provides guidance in the application of the SCAQMD guidance, identifying the following factors to be considered in the evaluation of construction air quality impacts:

- Combustion emissions from construction equipment
- Fugitive dust
- Grading, excavation, and hauling
- Heavy-duty equipment travel on unpaved roads
- Other Mobile Source Emissions

The SCAQMD is in the process of developing an Air Quality Analysis Guidance Handbook to replace the CEQA Air Quality Handbook. In the interim, supplemental guidance has been adopted by the SCAQMD. The potential air quality impacts of the project are, therefore, evaluated according to numeric indicators developed by the SCAQMD in the CEQA Air Quality Handbook and supplemental guidance from the SCAQMD.[3]

B. Regional Air Quality

Many air quality impacts that derive from dispersed mobile sources, which are the dominate pollution generators in the basin, often occurs hours later and miles away after photochemical processes have converted primary exhaust pollutants into secondary contaminants such as ozone. The incremental regional air quality impact of an individual project is generally very small and difficult to measure. Therefore, the SCAQMD has developed significance thresholds based on the volume of pollution emitted rather than on actual ambient air quality because the direct air quality impact of a project is not quantifiable on a regional scale. The SCAQMD CEQA Handbook states that any project in

[3] While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from residential land use projects such as the Project. As a result, lead emissions are not further evaluated herein.

the South Coast Air Basin with daily emissions that exceed any of the identified significance thresholds should be considered as having an individually and cumulatively significant air quality impact. For the purposes to this air quality impact analysis, a regional air quality impact would be considered significant if emissions exceed the SCAQMD significance thresholds identified in Table 6.

C. Local Air Quality

Project-related construction air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significant Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significant Threshold Methodology (LST Methodology), June 2003, which details the methodology to analyze local air emission impacts. The Localized Significant Threshold Methodology found that the primary emissions of concern are NO_2, CO, PM10, and PM2.5.

The significance thresholds for the local emissions of NO_2 and CO are determined by subtracting the highest background concentration from the last three years of these pollutants from Table 5 above, from the most restrictive ambient air quality standards for these pollutants that are outlined in the Localized Significant Thresholds. Table 6 shows the ambient air quality standards for NO_2, CO, PM10, and PM2.5.

D. Toxic Air Contaminants

According to the SCAQMD CEQA Handbook, any project that has the potential to expose the public to toxic air contaminants in excess of the following thresholds would be considered to have a significant air quality impact:

- If the Maximum Incremental Cancer Risk is 10 in one million or greater; or
- Toxic air contaminants from the proposed project would result in a Hazard Index increase of 1 or greater.

In order to determine if the proposed project may have a significant impact related to hazardous air pollutants (HAP), the Health Risk Assessment Guidance for analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, (Diesel Analysis) prepared by SCAQMD (August 2003) recommends that if the proposed project is anticipated to create hazardous air pollutants through stationary sources or regular operations of diesel trucks on the project site, then the proximity of the nearest receptors to the source of the hazardous air pollutants and the toxicity of the hazardous air pollutants should be analyzed through a comprehensive facility-wide health risk assessment (HRA).

As determined in the *California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal. 4th 369 (CBIA) case the California Supreme Court determined that CEQA does not generally require an impact analysis of the existing environmental conditions on the future residents of a proposed project and generally only requires an analysis of the proposed project's impact on the environment. However, the

CBIA case also stated that when a proposed project brings development and people into an area already subject to specific hazards and the new development/people exacerbate the existing hazards, then CEQA requires an analysis of the hazards and the proposed project's effect in terms of increasing the risks related to those hazards. In regards to air quality hazards, TACs are defined as substances that may cause or contribute to an increase in deaths or in serious illness, or that may pose a present or potential hazard to human health. As such, if a proposed project would not exacerbate pre-existing hazards (e.g., TAC health risks) then an analysis of those hazards and the proposed project's effect on increasing those hazards is not required.

The project is a residential project and will not be a source of toxic air contaminants. The existing conditions on the project site only include residential uses that will be removed and does not contain any operational land uses that emit toxic air contaminants. However, as the project is locating sensitive receptors in proximity to freeway-related DPM sources, an HRA was conducted (please see Section VIII of this report) for informational and disclosure purposes.

E. Odor Impacts

The SCAQMD CEQA Handbook states that an odor impact would occur if the proposed project creates an odor nuisance pursuant to SCAQMD Rule 402, which states:

> A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.
>
> The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

If the proposed project results in a violation of Rule 402 with regards to odor impacts, then the proposed project would create a significant odor impact.

F. Greenhouse Gases

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

- The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;
- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;

- The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions[4].

1. Regional - South Coast Air Quality Management District

The project is within the South Coast Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

SCAQMD Regulation XXVII, Climate Change. SCAQMD Regulation XXVII currently includes three rules:

- The purpose of Rule 2700 is to define terms and post global warming potentials.
- The purpose of Rule 2701, SoCal Climate Solutions Exchange, is to establish a voluntary program to encourage, quantify, and certify voluntary, high quality certified greenhouse gas emission reductions in the SCAQMD.
- Rule 2702, Greenhouse Gas Reduction Program, was adopted on February 6, 2009. The purpose of this rule is to create a Greenhouse Gas Reduction Program for greenhouse gas emission reductions in the SCAQMD. The SCAQMD will fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

A variety of agencies have developed greenhouse gas emission thresholds and/or have made recommendations for how to identify a threshold. However, the thresholds for projects in the jurisdiction of the SCAQMD remain in flux. The California Air Pollution Control Officers Association explored a variety of threshold approaches, but did not recommend one approach (2008). The SCAQMD is in the process of developing thresholds, as discussed below.

SCAQMD Threshold Development. On December 5, 2008, the SCAQMD Governing Board adopted an interim greenhouse gas significance threshold for stationary sources, rules, and plans where the SCAQMD is lead agency (SCAQMD permit threshold). The SCAQMD permit threshold consists of five tiers. However, the SCAQMD is not the lead agency for this project. Therefore, the five permit threshold tiers do not apply to the proposed project.

The SCAQMD is in the process of preparing recommended significance thresholds for greenhouse gases for local lead agency consideration ("SCAQMD draft local agency threshold"); however, the SCAQMD Board has not approved the thresholds as of the date of the Notice of Preparation. The current draft thresholds consist of the following tiered approach:

[4] The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a greenhouse gas reduction plan. If a project is consistent with a qualifying local greenhouse gas reduction plan, it does not have significant greenhouse gas emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to a project's operational emissions. If a project's emissions are under one of the following screening thresholds, then the project is less than significant:
  - All land use types: 3,000 MTCO2e per year
  - Based on land use type: residential: 3,500 MTCO2e per year; commercial: 1,400 MTCO2e per year; or mixed use: 3,000 MTCO2e per year.
  - Based on land type: Industrial (where SCAQMD is the lead agency), 10,000 MTCO2e per year.
- Tier 4 has the following options:
  - Option 1: Reduce emissions from business as usual (BAU) by a certain percentage; this percentage is currently undefined.
  - Option 2: Early implementation of applicable AB 32 Scoping Plan measures.
  - Option 3, 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO2e/SP/year for projects and 6.6 MTCO2e/SP/year for plans;
  - Option 3, 2035 target: 3.0 MTCO2e/SP/year for projects and 4.1 MTCO2e/SP/year for plans.
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap carbon dioxide concentrations at 450 ppm, thus stabilizing global climate. Specifically, the Tier 3 screening level for stationary sources is based on an emission capture rate of 90 percent for all new or modified projects. A 90 percent emission capture rate means that 90 percent of total emissions from all new or modified stationary source projects would be subject to a CEQA analysis, including a negative declaration, a mitigated negative declaration, or an environmental impact report, which includes analyzing feasible alternatives and imposing feasible mitigation measures. A GHG significance threshold based on a 90 percent emission capture rate may be more appropriate to address the long-term adverse impacts associated with global climate change because most projects will be required to implement GHG reduction measures. Further, a 90 percent emission capture rate sets the emission threshold low enough to capture a substantial fraction of future stationary source projects that will be constructed to accommodate future statewide population and economic growth, while setting the emission threshold high enough to exclude small projects that will in aggregate contribute a relatively small fraction of the cumulative statewide GHG emissions. This assertion is based on the fact that staff estimates that these GHG emissions would account for slightly less than one percent of future 2050 statewide GHG emissions target (85 MMTCO2eq/yr). In

addition, these small projects may be subject to future applicable GHG control regulations that would further reduce their overall future contribution to the statewide GHG inventory. Finally, these small sources are already subject to BACT for criteria pollutants and are more likely to be single-permit facilities, so they are more likely to have few opportunities readily available to reduce GHG emissions from other parts of their facility.

2. Local – City of Los Angeles

The City of Los Angeles adopted the Green LA: An Action Plan to Lead the Nation in Fighting Global Warming (LA Green Action Plan) in May 2007. This document outlines the goals and actions the City has established to reduce the generation and emission of GHGs from both public and private activities. According to the LA Green Action Plan, the City of Los Angeles is committed to the goal of reducing emissions of CO2 to 35 percent below 1990 levels by 2030. To achieve this, the City will increase the generation of renewable energy, improve energy conservation and efficiency, and change transportation and land use patterns to reduce dependence on automobiles. Some of the City's goals include:

- Recycling 62% of solid waste, a figure that exceeds California's strict recycling goals and represents the highest diversion rate among the nation's top five big cities;
- Investing in renewable energy to generate 20% of total power from clean sources by 2010 and reduce municipal CO2 output by 17.5% below 1990 levels;
- Holding water use steady through aggressive conservation despite overall population growth of 15% since 1990;
- Reducing the number of smoggy days from more than 200 in 1978, to 30 in 2005;
- Mandating green building standards for all new public buildings and providing incentives for private green development; and
- Investing in a fleet of alternative fuel vehicles that includes nearly half of the city's refuse collection trucks and street sweepers, all 188 DASH buses, and nearly 1,000 hybrid passenger cars that saved over 10 million gallons of fuel in 2006.

As part of the LA Green Action Plan, the Los Angeles Green Building Ordinance was passed in April 2008 that promotes green building practices by creating a series of requirements and incentives for developers to meet the U.S. Building Council's Energy and Design (LEED) standards. The requirements apply to all new projects greater than 50 units or 50,000 square feet.

As the City of Los Angeles does not have their own GHG emissions threshold, to be conservative, this analysis uses the SCAQMD draft screening threshold of 3,000 MTCO2e/year for all land uses.

Table 6

SCAQMD Air Quality Significance Thresholds[1]

Mass Daily Thresholds		
Pollutant	Construction (lbs/day)	Operation (lbs/day)
NOx	100	55
VOC	75	55
PM10	150	150
PM2.5	55	55
SOx	150	150
CO	550	550
Lead	3	3

Toxic Air Contaminants, Odor and GHG Thresholds	
TACs	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic & Acute Hazard Index > 1.0 (project increment)
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402
GHG	10,000 MT/yr CO2e for industrial land uses

Ambient Air Quality Standards	
Pollutant	SCAQMD Standards
NO2 -1-hour average	0.18 ppm (338 µg/m^3)
PM10 -24-hour average Construction Operations	 10.4 µg/m^3 2.5 ug/m^3
PM2.5 -24-hour average Construction Operations	 10.4 µg/m^3 2.5 µg/m^3
SO2 1-hour average 24-hour average	 0.25 ppm 0.04 ppm
CO 1-hour average 8-hour average	 20 ppm (23,000 µg/m^3) 9 ppm (10,000 µg/m^3)
Lead 30-day average Rolling 3-month average Quarterly average	 1.5 µg/m^3 0.15 µg/m^3 1.5 µg/m^3

[1] Source: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2

VI. SHORT-TERM CONSTRUCTION IMPACTS

Construction activities associated with the proposed project would have the potential to generate air emissions, toxic air contaminant emissions, and odor impacts. Assumptions for the duration of project construction were obtained from the project applicant. The construction activities for the proposed project are anticipated to include: demolition of an approximately 1,332 square foot existing single-family detached residential dwelling unit (the additional approximately 1,715 square foot existing single-family detached residential dwelling unit is to be relocated), grading of approximately 17,330 square feet (approximately 0.4 acres), building construction of 42 permanent supportive housing units and 22 affordable family housing units, paving of a lower level parking lot with 10 parking spaces, and application of architectural coatings.

The permanent supportive housing units were modeled as Apartments Mid-Rise (ITE Code 223) and the affordable family housing units as Condo/Townhouse High Rise (ITE Code 232) in the CalEEMod model in order to account for the different trip generation rates identified in the traffic technical memorandum.

The project is anticipated to start construction no sooner than March 2019 and take approximately 18 months to complete. The grading phase of the proposed project is anticipated to have approximately 1,344 cubic yards of export.

A. Construction-Related Regional Impacts

The construction-related regional air quality impacts have been analyzed for both criteria pollutants and GHGs.

1. Construction-Related Criteria Pollutants Analysis

The following provides a discussion of the methodology used to calculate regional construction air emissions and an analysis of the proposed project's short-term construction emissions for the criteria pollutants.

Methodology

Typical emission rates from construction activities were obtained from CalEEMod Version 2016.3.2. CalEEMod is a computer model published by the SCAQMD for estimating air pollutant emissions. The CalEEMod program uses the EMFAC2014 computer program to calculate the emission rates specific for Los Angeles County for construction-related employee vehicle trips and the OFFROAD2011 computer program to calculate emission rates for heavy truck operations. EMFAC2014 and OFFROAD2011 are computer programs generated by CARB that calculates composite emission rates for vehicles. Emission rates are reported by the program in grams per trip and grams per mile or grams per running hour. Using CalEEMod, the peak daily air pollutant emissions during each phase was calculated and presented below. These emissions represent the highest level of emissions for each of the construction phases in terms of air pollutant emissions. The construction emissions printouts from CalEEMod are provided in Appendix B.

The project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent, stabilizing ground cover on finished sites. In addition, projects that disturb 50 acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of the Project area (approximately 0.4 acres) a Fugitive Dust Control Plan or Large Operation Notification would not be required.

The phases of the construction activities which have been analyzed in the tables below are: (1) demolition, (2) grading, (3) building construction, (4) paving, and (5) application of architectural coatings. Building construction, paving and painting phases may overlap during construction. The emissions for the overlapping construction phases were added together and the total is shown in Table 7. See CalEEMod Output in Appendix B for details.

Per SCAQMD Rule 1113 as amended on June 3, 2011, the architectural coatings applied after January 1, 2014 will be limited to an average of 50 grams per liter or less.

Project Impacts

The construction-related criteria pollutant emissions are shown below in Table 7. Table 7 shows that none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from construction of the proposed project.

B. Construction-Related Local Impacts

Construction-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local air quality impacts created from: construction-related fugitive dust and diesel emissions; from toxic air contaminants; and from construction-related odor impacts.

1. Local Air Quality Impacts from Construction

Construction-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local air quality impacts created from: construction-related fugitive dust and diesel emissions; from toxic air contaminants; and from construction-related odor impacts.

The SCAQMD has published a "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds" (South Coast Air Quality Management District 2011b). CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily disturbance activity possible for each piece of equipment. In order to compare CalEEMod reported emissions against the localized significance threshold lookup tables, the CEQA document should contain in its project design features or its mitigation measures the following parameters:

(1) The off-road equipment list (including type of equipment, horsepower, and hours of operation) assumed for the day of construction activity with maximum emissions.
(2) The maximum number of acres disturbed on the peak day.
(3) Any emission control devices added onto off-road equipment.
(4) Specific dust suppression techniques used on the day of construction activity with maximum emissions.

The CalEEMod output sheets included in Appendix B show the equipment used for this analysis.

As shown in Table 8, the maximum number of acres disturbed in a day would be 1.5 acres.

The local air quality emissions from construction were analyzed using the SCAQMD's Mass Rate Localized Significant Threshold Look-up Tables and the methodology described in Localized Significance Threshold Methodology prepared by SCAQMD (revised July 2008). The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. The emission thresholds were calculated based on the Central Los Angeles source receptor area (SRA) 1 and, to be conservative, a disturbance value of one acre per day (see Table 8).

According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25 meter thresholds. The nearest sensitive receptors are the single-family detached residential dwelling units located adjacent to the north and east and the multi-family attached residential dwelling units located adjacent to the south of the project site; therefore, the SCAQMD Look-up Tables for 25 meters was used. Table 9 shows the on-site emissions from the CalEEMod model for the different construction phases and the localized emissions thresholds.

The data provided in Table 9 shows that none of the analyzed criteria pollutants would exceed the calculated local emissions thresholds at the nearest sensitive receptors. Therefore, a less than significant local air quality impact would occur from construction of the proposed project.

2. Construction-Related Toxic Air Contaminant Impacts

The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of "individual cancer risk". "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 30 year lifetime will contract cancer, based on the use of standard risk-assessment methodology. Given the relatively limited number of heavy-duty construction equipment and the short-term construction schedule, the proposed project would not result in a long-term (i.e., 30 years) substantial source of toxic air contaminant emissions and corresponding individual cancer risk. Furthermore, construction-based particulate matter (PM) emissions (including diesel exhaust emissions) do not exceed any local or regional thresholds. Therefore, no significant short-term toxic air contaminant impacts would occur during construction of the proposed project.

3. Construction-Related Odor Impacts

Potential sources that may emit odors during construction activities include the application of materials such as asphalt pavement. The objectionable odors that may be produced during the construction process are of short-term in nature and the odor emissions are expected cease upon the drying or hardening of the odor producing materials. Due to the short-term nature and limited amounts of odor producing materials being utilized, no significant impact related to odors would occur during construction of the proposed project. Diesel exhaust and VOCs would be emitted during construction of the project, which are objectionable to some; however, emissions would disperse rapidly from the project site and therefore should not reach an objectionable level at the nearest sensitive receptors.

Table 7

Construction-Related Regional Pollutant Emissions[1]

Activity	Pollutant Emissions (pounds/day)					
	VOC	NOx	CO	SO_2	PM10	PM2.5
Demolition						
On-Site[2]	0.95	8.60	7.69	0.01	0.54	0.51
Off-Site[3]	0.06	0.06	0.49	0.00	0.11	0.03
Subtotal	1.01	8.67	8.18	0.01	0.66	0.54
Grading*						
On-Site[2]	0.95	8.60	7.69	0.01	0.83	0.67
Off-Site[3]	0.12	2.21	0.94	0.01	0.24	0.07
Subtotal	1.08	10.82	8.63	0.02	1.08	0.75
Building Construction						
On-Site	0.96	9.82	7.54	0.01	0.61	0.56
Off-Site	0.34	1.37	2.86	0.01	0.67	0.19
Subtotal	1.29	11.20	10.41	0.02	1.27	0.74
Paving						
On-Site	0.77	7.23	7.11	0.01	0.40	0.37
Off-Site	0.09	0.07	0.79	0.00	0.20	0.05
Subtotal	0.86	7.29	7.90	0.01	0.60	0.42
Architectural Coating						
On-Site	29.86	1.68	1.83	0.00	0.11	0.11
Off-Site	0.06	0.04	0.48	0.00	0.12	0.03
Subtotal	29.92	1.72	2.31	0.00	0.23	0.14
Total of Overlapping Construction Phases[4]	**32.08**	**20.21**	**20.62**	**0.04**	**2.11**	**1.31**
SCAQMD Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

[1] Source: CalEEMod Version 2016.3.2

* includes fugitive dust control measures mandated by SCAQMD Rule 403 (used mitigated values for fugitive PM 10 and fugitive PM 2.5 and unmitigated values for off-road PM 10 and PM 2.5)

[2] On-site emissions from equipment operated on-site that is not operated on public roads.

[3] Off-site emissions from equipment operated on public roads.

[4] Construction phase, paving phase and painting phase may overlap.

Table 8

Maximum Number of Acres Disturbed Per Day[1]

Activity	Equipment	Number	Acres/8hr-day	Total Acres
Demolition	Rubber Tired Dozers	1	0.5	0.5
	Tractors/Loaders/Backhoes	2	0.5	1
Maximum per phase		-	-	**1.5**
Grading	Rubber Tired Dozers	1	0.5	0.5
	Tractors/Loaders/Backhoes	2	0.5	1
Maximum per phase		-	-	**1.5**

[1] Source: South Coast AQMD, Fact Sheet for Applying CalEEMod to Localized Significance Thresholds.

Table 9

Local Construction Emissions at the Nearest Receptors[1]

Activity	On-Site Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Demolition	8.60	7.69	0.54	0.51
Grading	8.60	7.69	0.83	0.67
Building Construction	9.82	7.54	0.61	0.56
Paving	7.23	7.11	0.40	0.37
Architectural Coating	1.68	1.83	0.11	0.11
SCAQMD Thresholds[2]	**74**	**680**	**5**	**3**
Exceeds Threshold?	No	No	No	No

[1] Source: Maximum daily emissions from CalEEMod 2016.3.2.

[2] Source: SCAQMD's Mass Rate Look-up Tables for one acre at a distance of 25 m (nearest sensitive receptors are adjacent to the east, north, and south) in SRA 1 Central Los Angeles.

* Note: The project is to disturb up to 1.5 acres per day (See Table 8).

VII. LONG-TERM AIR QUALITY OPERATIONAL IMPACTS

The on-going operation of the proposed project would result in a long-term increase in air quality emissions. This increase would be due to emissions from the project-generated vehicle trips and through operational emissions from the on-going use of the proposed project. The following section provides an analysis of potential long-term air quality impacts due to: regional air quality and local air quality impacts with the on-going operations of the proposed project.

A. Operations-Related Regional Air Quality Impacts

The potential operations-related air emissions have been analyzed below for the criteria pollutants and cumulative impacts.

1. Operations-Related Criteria Pollutant Analysis

The operations-related criteria air quality impacts created by the proposed project have been analyzed through use of the CalEEMod model. The operating emissions were based on the year 2020, which is the anticipated opening year for the proposed project. Two existing single-family detached residential dwelling units are to be eliminated from the project site (one is to be demolished and one is to be relocated) and the emissions reductions for the removal of these uses are included in Table 10. The operations daily emissions printouts from the CalEEMod model are provided in Appendix B. CalEEMod analyzes operational emissions from area sources, energy usage, and mobile sources, which are discussed below.

Mobile Sources

Mobile sources include emissions from the vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips from the Technical Memorandum – Firmin Court Residential Project prepared by Linscott, Law, and Greenspan, Engineers (June 2018), into the CalEEMod Model. The Technical Memorandum found that the proposed project would generate approximately 143 vehicle trips per day. Existing land uses to be demolished were found to generate approximately 19 vehicle trips per day; therefore, the proposed project includes an increase from existing of approximately 124 vehicle trips per day. The trip generation rates include 1.27 trips per dwelling unit per day for the permanent supportive housing dwelling units and 4.08 trips per dwelling unit per day for the affordable family housing dwelling units. The technical memorandum also found a trip generation rate of 9.44 trips per dwelling unit for the two existing single-family detached residential dwelling units that are to be either demolished or relocated from the site. The program then applies the emission factors for each trip which is provided by the EMFAC2014 model to determine the vehicular traffic pollutant emissions.

Area Sources

Area sources include emissions from consumer products, landscape equipment and architectural coatings. Landscape maintenance includes fuel combustion emissions

from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. As specifics were not known about the landscaping equipment fleet, CalEEMod defaults were used to estimate emissions from landscaping equipment.

Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No changes were made to the default energy usage parameters.

Project Impacts

The worst-case summer or winter VOC, NOx, CO, SO_2, PM10, and PM2.5 emissions created from the proposed project's long-term operations have been calculated and are summarized below in Table 10. Table 10 shows that even without subtracting the emissions from existing uses (which will be demolished or re-located), none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Emissions are even lower once those existing uses are subtracted. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

2. Cumulative Regional Air Quality Impacts

Cumulative projects include local development as well as general growth within the project area. However, as with most development, the greatest source of emissions is from mobile sources, which travel well out of the local area. Therefore, from an air quality standpoint, the cumulative analysis would extend beyond any local projects and when wind patterns are considered would cover an even larger area. Accordingly, the cumulative analysis for the project's air quality must be generic in nature.

The project area is out of State attainment for both ozone and particulate matter (PM-10 and PM-2.5). Construction and operation of cumulative projects will further degrade the local air quality, as well as the air quality of the South Coast Air Basin. The greatest cumulative impact on the quality of regional air cell will be the incremental addition of pollutants mainly from increased traffic from residential, commercial, and industrial development and the use of heavy equipment and trucks associated with the construction of these projects. Air quality will be temporarily degraded during construction activities that occur separately or simultaneously. However, in accordance with the SCAQMD methodology, projects that do not exceed the SCAQMD criteria or can be mitigated to less than criteria levels are not significant and do not add to the overall cumulative impact. With respect to long-term emissions, this project would create a less than significant cumulative impact.

B. Operations-Related Local Air Quality Impacts

Project-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local CO emission impacts from the project-

generated vehicular trips and from the potential local air quality impacts from on-site operations. The following analysis analyzes the vehicular CO emissions, local impacts from on-site operations, and odor impacts.

1. Local CO Emission Impacts from Project-Generated Vehicular Trips

CO is the pollutant of major concern along roadways because the most notable source of CO is motor vehicles. For this reason, CO concentrations are usually indicative of the local air quality generated by a roadway network and are used as an indicator of potential local air quality impacts. Local air quality impacts can be assessed by comparing future without and with project CO levels to the State and Federal CO standards which were presented in above in Section V.

To determine if the proposed project could cause emission levels in excess of the CO standards discussed above in Section V, a sensitivity analysis is typically conducted to determine the potential for CO "hot spots" at a number of intersections in the general project vicinity. Because of reduced speeds and vehicle queuing, "hot spots" potentially can occur at high traffic volume intersections with a Level of Service E or worse.

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 Air Quality Management Plan (2003 AQMP) and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan). As discussed in the 1992 CO Plan, peak carbon monoxide concentrations in the South Coast Air Basin are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections. Considering the region's unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of 1992 CO Plan and subsequent plan updates and air quality management plans. In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included: South Long Beach Boulevard and Imperial Highway (Lynwood); Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. The Los Angeles County Metropolitan Transportation Authority evaluated the LOS in the vicinity of the Wilshire Boulevard/Veteran Avenue intersection and found it to be Level of Service E during the morning peak hour and Level of Service F during the afternoon peak hour.

The Technical Memorandum showed that the project would generate a maximum of approximately 143 trips (124 trips after reduction of existing uses). The intersection with the highest traffic volume is located at the intersection of Temple Street and Beaudry Avenue and has a Future with project morning peak hour volume of 1,262 vehicles. The 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan) showed that an intersection which has a daily traffic volume of approximately

100,000 vehicles per day would not violate the CO standard. Therefore, as the proposed project would not cause intersection traffic volumes to reach 100,000 vehicles, no CO "hot spot" modeling was performed and no significant long-term air quality impact from CO is anticipated to local air quality with the on-going use of the proposed project.

2. Local Air Quality Impacts from On-Site Operations

Project-related air emissions from on-site sources such as architectural coatings, landscaping equipment, on-site usage of natural gas appliances as well as the operation of vehicles on-site may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the Air Basin. The nearest sensitive receptor that may be impacted by the proposed project are the residential uses to the east, south, north, and west of the project site.

According to SCAQMD LST methodology, LSTs would apply to the operational phase of a project, if the project includes stationary sources, or attracts mobile sources (such as heavy-duty trucks) that may spend long periods queuing and idling at the site; such as industrial warehouse/transfer facilities. The proposed project is a residential project and does not include such uses. Therefore, due the lack of stationary source emissions, no long-term localized significance threshold analysis is warranted.

3. Operations-Related Odor Impacts

The SCAQMD recommends that odor impacts be addressed in a qualitative manner. Such an analysis shall determine whether the project would result in excessive nuisance odors, as defined under the California Code of Regulations and Section 41700 of the California Health and Safety Code, and thus would constitute a public nuisance related to air quality.

Land uses typically considered associated with odors include wastewater treatment facilities, waste-disposal facilities, or agricultural operations. The project does not contain land uses typically associated with emitting objectionable odors.

Table 10

Regional Operational Pollutant Emissions[1]

Activity	Pollutant Emissions (pounds/day)					
	VOC	NOx	CO	SO2	PM10	PM2.5
Area Sources[2]	1.38	1.02	5.71	0.01	0.11	0.11
Energy Usage[3]	0.02	0.15	0.06	0.00	0.01	0.01
Mobile Sources[4]	0.30	1.45	4.14	0.01	1.05	0.29
Subtotal Emissions	**1.70**	**2.62**	**9.91**	**0.02**	**1.17**	**0.41**
- Existing single-family dwelling units being removed	**-0.65**	**-0.25**	**-1.73**	**0.00**	**-0.29**	**-0.19**
Total Emissions	**1.05**	**2.37**	**8.17**	**0.02**	**0.88**	**0.22**
SCAQMD Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Threshold?	No	No	No	No	No	No

[1] Source: CalEEMod Version 2016.3.2. Emissions presented are the worst from either summer or winter.

[2] Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

[3] Energy usage consists of emissions from generation of electricity and on-site natural gas usage.

[4] Mobile sources consist of emissions from vehicles and road dust.

VIII. DIESEL EMISSIONS HEALTH RISK ASSESSMENT

The proposed project would be exposed to toxic air contaminant emissions from diesel truck emissions from nearby freeway DPM sources. As stated previously, in the *California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal. 4th 369 (CBIA) case the California Supreme Court determined that CEQA does not generally require an impact analysis of the existing environmental conditions on the future residents of a proposed project and generally only requires an analysis of the proposed project's impact on the environment. However, the CBIA case also stated that when a proposed project brings development and people into an area already subject to specific hazards and the new development/people exacerbate the existing hazards, then CEQA requires an analysis of the hazards and the proposed project's effect in terms of increasing the risks related to those hazards. In regards to air quality hazards, TACs are defined as substances that may cause or contribute to an increase in deaths or in serious illness, or that may pose a present or potential hazard to human health. As such, if a proposed project would not exacerbate pre-existing hazards (e.g., TAC health risks) then an analysis of those hazards and the proposed project's effect on increasing those hazards is not required. However, as the project is a residential project and will not be a source of toxic air contaminants, and the existing conditions on the project site only include vacant land that does not contain any operational land uses that emit toxic air contaminants, the following health risk assessment was performed for informational and disclosure purposes.

SCAQMD methodology states that health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 30-year lifetime will contract cancer, based on the use of revised Office of Environmental Health Hazard Assessment (OEHHA) risk-assessment methodology[5].

A health risk assessment requires the completion and interaction of four general steps:

(1) Quantify project-generated TAC emissions.
(2) Identify nearby ground-level receptor locations that may be affected by the emissions (including any special sensitive receptor locations such as residences, schools, hospitals, convalescent homes, and daycare centers).
(3) Perform air dispersion modeling analyses to estimate ambient pollutant concentrations at each receptor location using project TAC emissions and representative meteorological data to define the transport and dispersion of those emissions in the atmosphere.
(4) Characterize and compare the calculated health risks with the applicable health risk significance thresholds.

[5] In February 2015, the Office of Environmental Health Hazard Assessment updated their "Air Toxics Hot Spots Program, Risk Assessments Guidelines, Guidance Manual for Preparation of Health Risk Assessments; however, the updated OEHHA guidance states in the page footers "do not cite or quote." SCAQMD staff have incorporated the updates into their methodology for SCAQMD's Rules 1401, 1401.1, 1402, and 212, and have updated their HRA Guidance for permitting; however they are still in the process of updating the guidance for CEQA analyses (via working group sessions); however, to be conservative, the new OEHHA guidance was used to assess HRA impacts in this analysis.

The ARB Air Quality and Land Use Handbook (ARB Handbook) provides an advisory recommendation to avoid the locating of new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day. Proposed residential uses are within approximately 335 feet of the 101 Freeway. The California Department of Transportation traffic counts show 2016 AADT numbers of 217,000 (back AADT) at the segment of Los Angeles, Jct. Rte. 110 with a total of 7,574 of those vehicles being trucks.

To determine the potential health risk from freeway emissions sources to the future residents of the project site, a health risk estimate was performed.

A. Estimate of Emissions Factors

The DPM emission factors for the various vehicle types were derived from the CARB EMFAC2014 mobile source emission model for Los Angeles County. The 1-year exposure used opening year (2020) emissions factors and reflects exposure during third trimester, 2-year factors (for infant exposure) reflect years 2021 and 2022, the first 14-year average factors are used for child exposure during years 2-16) reflect emissions during the subsequent 14 years of operation (2023 to 2036), and the second 14 years of exposure (years 2037-2050) were used for assessment of adult exposure during years 16 to 30. The four different sets of emissions factors used in this assessment are detailed in Table 11. It should be noted that the DPM emissions on both the gram per mile and gram per idle hour bases have declined beyond 2018 for all vehicle classes and in particular the heavy-heavy-duty truck class (the 4+ axle "big rig" trucks). This is due to the CARB emissions' requirements on heavy-duty trucks that call for either the replacement of older trucks with cleaner trucks or the installation of diesel particulate matter filters on the truck fleet.

Emission Source Characterization
Each of the emission source types described above also requires geometrical and emission release specifications for use in the air dispersion model. Table 12 provides a summary of the assumptions used to configure the various emission sources. The following definitions are used to characterize the emission source geometrical configurations referred to in Table 12:

Line source: A series of volume sources along a path, for example, vehicular traffic along a roadway (shown as a blue line on Figure 3).

Figure 3 provides the location of the receptors (shown by orange triangles) and emission source locations, shown by the blue line along each direction of the freeway (as the emissions are calculated for both the eastbound and westbound lanes of the freeway). The residential area is outlined in red.

B. Receptor Network

The assessment requires that a network of receptors be specified where the impacts can be computed at the various locations surrounding the project. Receptors were located at proposed residential and recreational uses within the proposed project (as detailed above). In addition, the identified sensitive receptors locations were supplemented by the specification of a modeling grid that extended around the proposed project to identify

other potential locations of impact. Per SCAQMD AERMOD guidance, and to ensure that impacts to children of all heights were assessed, the receptor height is 0 meters (per SCAQMD methodology). The locations of the receptors are shown as orange triangles on Figure 3.

C. Dispersion Modeling

The next step in the assessment process utilizes the emissions inventory along with a mathematical air dispersion model and representative meteorological data to calculate impacts at the various receptor locations. The dispersion model used in this assessment is described below.

1. Model Selection

The assessment of air quality and health risk impacts from pollutant emissions from this project applied the USEPA AERMOD Model, which is the air dispersion model accepted by the SCAQMD for performing air quality impact analyses. AERMOD predicts pollutant concentrations from point, area, volume, line, and flare sources with variable emissions in terrain from flat to complex. It captures the essential atmospheric physical processes and provides reasonable estimates over a wide range of meteorological conditions and modeling scenarios. AERMAP, which assigns detailed terrain information, was run prior to running AERMOD.

2. General Model Assumptions

The basic options used in the dispersion modeling are summarized in Table 13.

3. Meteorological Data

Meteorological data from the Air District's Central Los Angeles monitoring site was selected for this modeling application. Five full years of sequential meteorological data was collected at the site for 2010-2011 and 2014-2016 by the SCAQMD. The SCAQMD processed the data for input to the model. The data was obtained at SCAQMD's http://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological -data/data-for-aermod (Figure 4 shows a Wind Rose for Los Angeles).

D. Estimation of Health Risks

Health risks from diesel particulate matter are twofold. First, diesel particulate matter is a carcinogen according to the State of California. Second, long-term chronic exposure to diesel particulate matter can cause health effects to the respiratory system. Each of these health risks is discussed below.

1. Cancer Risks

According to the *Risk Assessment Guidelines: Guidance Manual for Preparation of Health Risk Assessments*, released by the Office of Environmental Health Hazard

Assessment (OEHHA) in February 2015 and formally adopted in March 2015, the residential inhalation dose for cancer risk assessment should be calculated using the following formula:

[Dose-air (mg/(Kg-day)]*Cancer Potency*[1x10^{-6}] = Potential Cancer Risk

Where:
Cancer Potency Factor = 1.1
Dose-inh = (C¬air * DBR * A * EF * ED *ASF*FAH* 10-6) / AT

Where:
Cair [Concentration in air (µg/m3)] = (Calculated by AERMOD Model)
DBR [Daily breathing rate (L/kg body weight – day)] = 261 for adults, 572 for children, and 1,090 for infants, and 361 for 3rd trimester per SCAQMD Permit Application Package "M" Table 9.1 guidance.

A [Inhalation absorption factor] = 1
EF [Exposure frequency (days/year)] = 350
ED [Exposure duration (years)] = 30 for adults (for an individual who is an adult at opening year), 14 for children (from 2-16 years), 14 for adults (from 16-30 years), 2 for infants, and 1 for 3rd Trimester
ASF [Age sensitivity factor) = 10 for 3rd trimester to 2 years of age, 3 for 2 to 16 years of age, and 1 for 16 to 30 years of age
FAH [Fraction of time spent at home] = 1 for 3rd trimester to 2 years of age, 1 for 2 to 16 years of age, and 0.73 for 16 to 30 years of age
10^6 [Micrograms to milligrams conversion]
AT [Average time period over which exposure is averaged in days] = 25,550

The model run results are shown in Appendix D. Figure 5 illustrates the cancer risk to the most affected age-group, infants 0-2 years.

Table 14 show the cancer risk for the unborn child during the 3rd trimester, Table 15 shows the cancer risk to infants (0-2 years), Table 16 shows the cancer risk to children ages 2 to 16 years and Table 17 shows the cancer risk as that child becomes an adult (years 16-30). The highest infant cancer risk is at receptor 1; with a maximum risk of 2.04 in one million. The highest child cancer risk is also at receptor 1; with a maximum risk of 0.98 in one million. Therefore, no infants or children are exposed to cancer risk in excess of 10 in a million.

The assessment of cancer-related health risk to sensitive receptors within the project vicinity is based on the following most-conservative scenario:

- an unborn child in its 3rd trimester is potentially exposed to DPM emissions (via exposure of the mother) during the opening year,
- that child is born opening year and then remains at home for the entire first two years of life
- from age 2 to 16, the child remains at home 100 percent of the time

- from age 16 to 30, the child continues to live at home, growing into an adult that spends 73 percent of its time at home and lives there until age 30.

Based on the above, ultra-conservative assumptions, the 30.25-year, cumulative carcinogenic health risk (3rd trimester [-0.25 to 0 years] + infant [0-2 years] + child [2-16 years] + adult [16-30 years]) to an individual born during the opening year of the project, and located in the project vicinity for the entire 30-year duration, is a maximum of 3.19 in a million, as shown in Table 18.

As the cancer risk is less than 10 in a million for all groups analyzed, it is concluded that the project site is will not be impacted by TAC emissions. Impacts are considered to be less than significant.

2. Non-Cancer Risks

The relationship for non-cancer health effects is given by the equation:

HIDPM = CDPM/RELDPM

Where,
HIDPM = Hazard Index; an expression of the potential for non-cancer health effects.
CDPM = Annual average diesel particulate matter concentration in µg/m3.
RELDPM = Reference Exposure Level (REL) for diesel particulate matter; the diesel particulate matter concentration at which no adverse health effects are anticipated.

The non-carcinogenic hazards to 3rd trimester, infant, child and adult receptors are also detailed in Tables 14 through 17 column (j). The RELDPM is 5 µg/m3. The Office of Environmental Health Hazard Assessment as protective for the respiratory system has established this concentration. Using the maximum DPM concentration for the opening year, the resulting Hazard Index is

HIDPM = 0.12611/5 = 0.025

The criterion for significance is a Hazard Index increase of 1.0 or greater. Therefore, the proposed project would have a less than significant impact due to the non-cancer risk from diesel emissions from the nearby freeway traffic.

Table 11

DPM Vehicular Emission Factors[1]

Vehicle Type	MPH assumed for vehicle type	14-year Average DPM Exhaust Emissions Factor(g/mi) [First 14 years]
Light Duty Auto (LDA)	70	0.002575908
Light Duty Truck 1 (LDT1)	70	0.028968107
Light Duty Truck 2 (LDT2)	70	0.003281845
Medium Duty Truck (MDV)	60	0.002090032
Light-Heavy Duty Truck 1 (LHDT1)	60	0.014220582
Light-Heavy Duty Truck 2 (LHDT2)	60	0.009734311
Medium-Heavy Duty Truck (MHDT)	55	0.002606
Heavy-Heavy Duty Truck (HHDT)*	55	0.004825

Vehicle Type	MPH assumed for vehicle type	14-year Average DPM Exhaust Emissions Factor(g/mi) [Second 14 years]
Light Duty Auto (LDA)	70	0.000599258
Light Duty Truck 1 (LDT1)	70	0.003441537
Light Duty Truck 2 (LDT2)	70	0.003153722
Medium Duty Truck (MDV)	60	0.000727772
Light-Heavy Duty Truck 1 (LHDT1)	60	0.005576302
Light-Heavy Duty Truck 2 (LHDT2)	60	0.005360496
Medium-Heavy Duty Truck (MHDT)	55	0.002430
Heavy-Heavy Duty Truck (HHDT)*	55	0.004535

Vehicle Type	MPH assumed for vehicle type	2-year Average DPM Exhaust Emissions Factor(g/mi)
Light Duty Auto (LDA)	70	0.008863216
Light Duty Truck 1 (LDT1)	70	0.106872803
Light Duty Truck 2 (LDT2)	70	0.00358187
Medium Duty Truck (MDV)	60	0.004462079
Light-Heavy Duty Truck 1 (LHDT1)	60	0.021302309
Light-Heavy Duty Truck 2 (LHDT2)	60	0.016026037
Medium-Heavy Duty Truck (MHDT)	55	0.005494
Heavy-Heavy Duty Truck (HHDT)*	55	0.013135

Vehicle Type	MPH assumed for vehicle type	1-year Average DPM Exhaust Emissions Factor(g/mi)
Light Duty Auto (LDA)	70	0.009106965
Light Duty Truck 1 (LDT1)	70	0.114105346
Light Duty Truck 2 (LDT2)	70	0.004151167
Medium Duty Truck (MDV)	60	0.005241357
Light-Heavy Duty Truck 1 (LHDT1)	60	0.024583517
Light-Heavy Duty Truck 2 (LHDT2)	60	0.018216909
Medium-Heavy Duty Truck (MHDT)	55	0.005851
Heavy-Heavy Duty Truck (HHDT)*	55	0.015542

[1] Source: EMFAC2014 for LA (SC).

Table 12

Summary of Emission Configurations

Emission Source Type	Geometric Configuration	Relevant Assumptions
Off-Site Diesel Traffic	Line Sources	Plume height: 3.66 meters
		Vehicle speed: See Table 11
		Length of the line source (101 Freeway segment north of project)
		Vehicle types: see Table 11
		Emission factor: CARB EMFAC2014

Table 13

General Modeling Assumptions - AERMOD Model

Feature	Option Selected
Zone	11 North
Terrain processing	AERMAP NED GEOTIFF (30 m)
Emission source configuration	See Table 12
Regulatory dispersion options	Default
Land use	Urban[1]
Coordinate system	UTM
Receptor height	0 meters above ground[1]
Meteorological data	SCAQMD Central Los Angeles

[1] Per SCAQMD AERMOD guidance methodology, available at http://www.aqmd.gov/home/library/air-quality-data-studies/meteorological-data/modeling-guidance

Table 14

Carcinogenic Risks and Non-Carcinogenic Hazards
3rd Trimester Exposure Scenario (0.25 Years)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00711	7.1E-06	1.00E+00	DPM	1.1E+00	0.10	5.0E+00	1.4E-03	0.0014
2	0.00661	6.6E-06	1.00E+00	DPM	1.1E+00	0.09	5.0E+00	1.4E-03	0.0013
3	0.00436	4.4E-06	1.00E+00	DPM	1.1E+00	0.06	5.0E+00	1.4E-03	0.0009
4	0.00471	4.7E-06	1.00E+00	DPM	1.1E+00	0.06	5.0E+00	1.4E-03	0.0009

Note: Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	0.25
Daily Breathing Rate	361
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	91.25

Table 15

Carcinogenic Risks and Non-Carcinogenic Hazards
Infant Exposure Scenario (2 Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00622	6.2E-06	1.00E+00	DPM	1.1E+00	2.04	5.0E+00	1.4E-03	0.0012
2	0.00578	5.8E-06	1.00E+00	DPM	1.1E+00	1.90	5.0E+00	1.4E-03	0.0012
3	0.00382	3.8E-06	1.00E+00	DPM	1.1E+00	1.25	5.0E+00	1.4E-03	0.0008
4	0.00412	4.1E-06	1.00E+00	DPM	1.1E+00	1.35	5.0E+00	1.4E-03	0.0008

Note: Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	2
Daily Breathing Rate	1090
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	730

Table 16

Carcinogenic Risks and Non-Carcinogenic Hazards
Child Exposure Scenario (14 Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00272	2.7E-03	1.00E+00	DPM	1.1E+00	0.98	5.0E+00	1.4E-03	0.0005
2	0.00253	2.5E-03	1.00E+00	DPM	1.1E+00	0.92	5.0E+00	1.4E-03	0.0005
3	0.00167	1.7E-03	1.00E+00	DPM	1.1E+00	0.60	5.0E+00	1.4E-03	0.0003
4	0.0018	1.8E-06	1.00E+00	DPM	1.1E+00	0.65	5.0E+00	1.4E-03	0.0004

Note: Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	14
Daily Breathing Rate	572.00
Age Sensitivity Factor	3
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	5110

Table 17

Carcinogenic Risks and Non-Carcinogenic Hazards
Adult Exposure Scenario (14 Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00164	1.6E-06	1.00E+00	DPM	1.1E+00	0.07	5.0E+00	1.4E-03	0.0003
2	0.00152	1.5E-06	1.00E+00	DPM	1.1E+00	0.06	5.0E+00	1.4E-03	0.0003
3	0.001	1.0E-06	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
4	0.00108	1.1E-06	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002

Note: Exposure factors used to calculate TAC intake

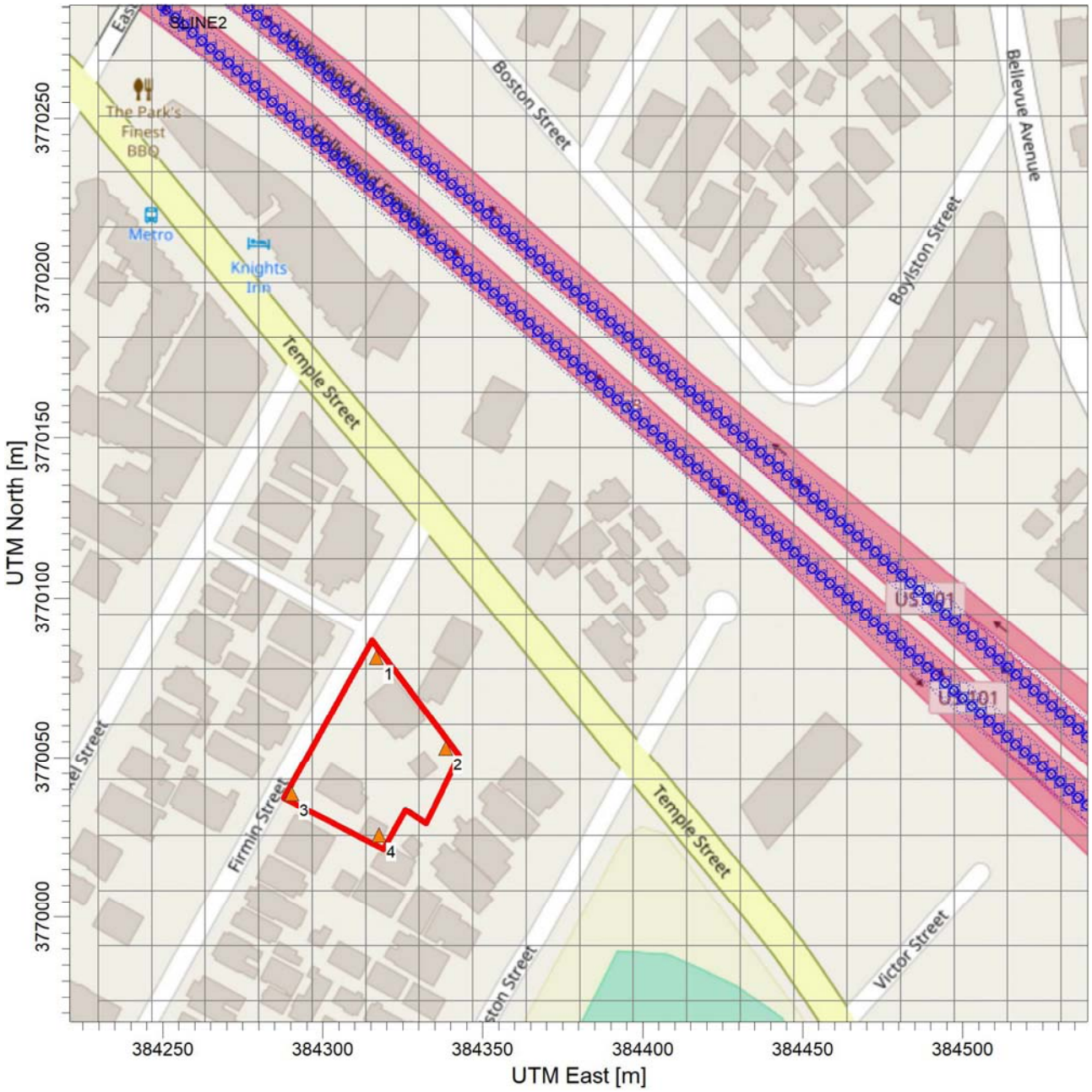
Exposure Frequency (days/year)	350	
Exposure Duration (years)	14	
Daily Breathing Rate	261	
Age Sensitivity Factor	1	
Fraction of Time At Home (FAH)	0.73	
Averaging Time $_{(cancer)}$ (days)	25550	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	5110	

Table 18

Cumulative Carcinogenic Risk
30.25-Year Exposure Scenario

Receptor ID	Cumulative RISK (per million)
1	3.19
2	2.97
3	1.96
4	2.11

Figure 3
AERMOD Model Source and Receptor Placement



Legend

= Project Boundary
= Freeway DPM Sources
= Receptor locations
= Cartesian Receptors

Figure 4
Wind Rose: Los Angeles

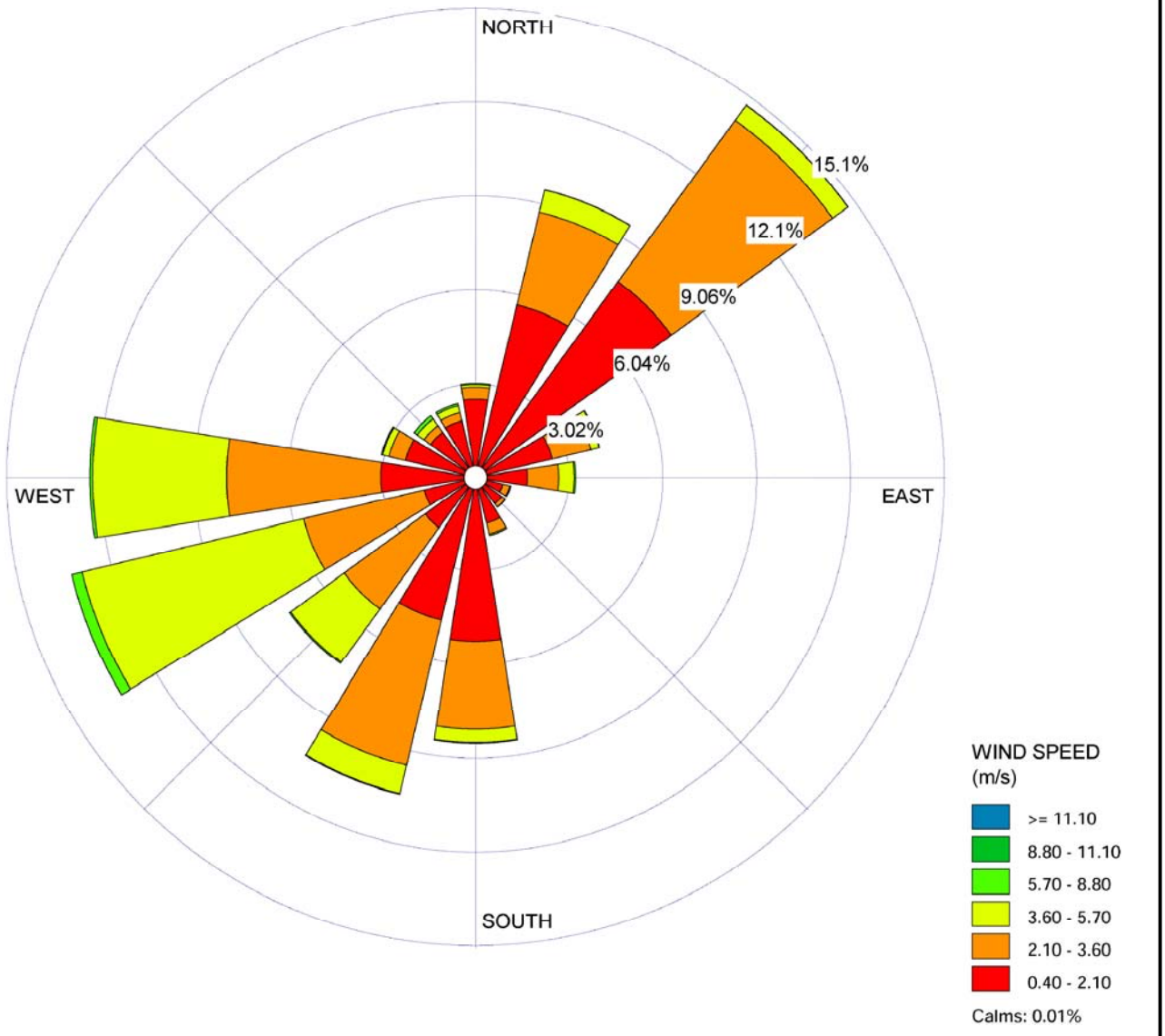
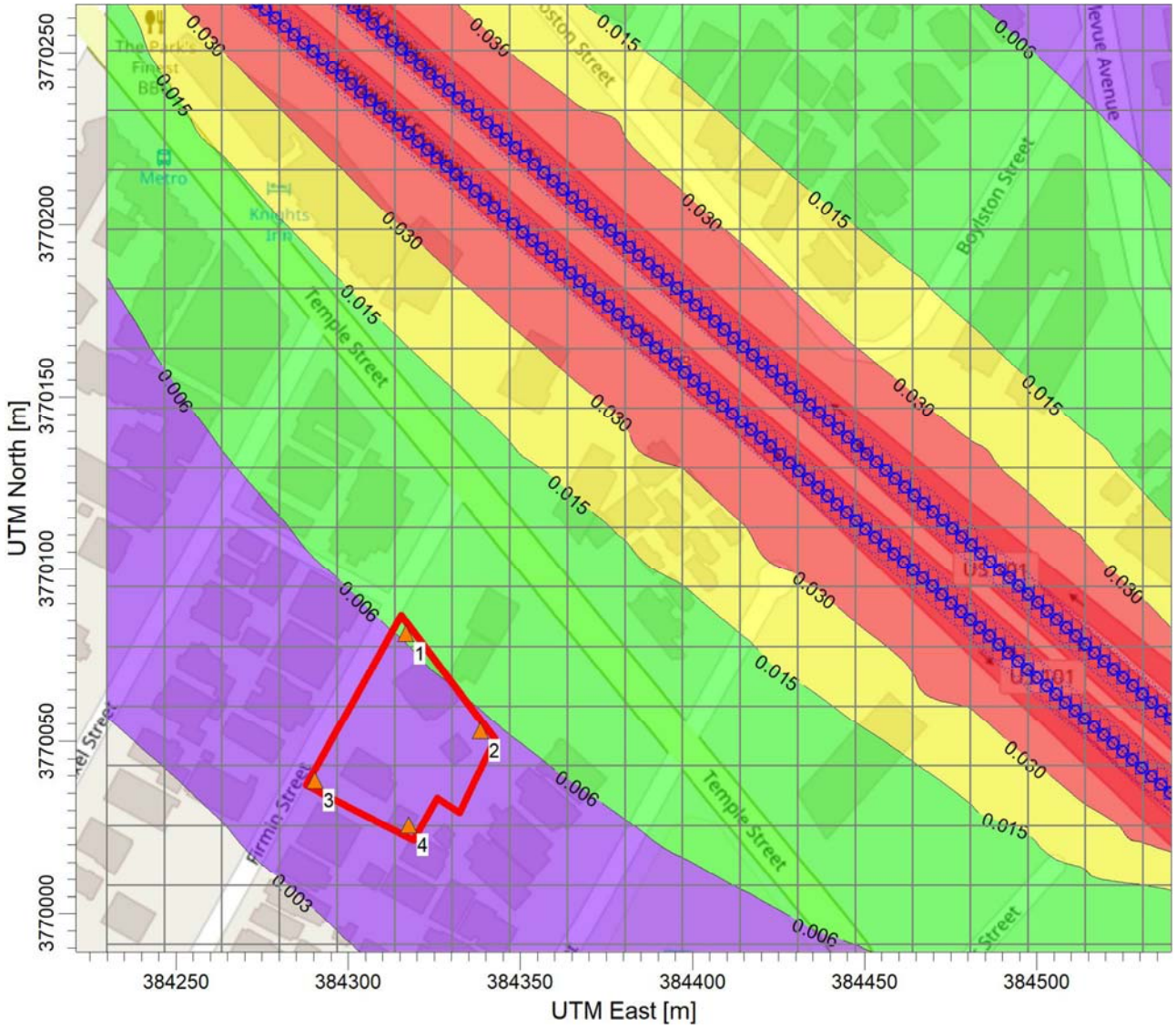


Figure 5
Modeled Survey Area Highest Annual DPM Emissions



Infant Cancer Risk (2 Year Exposure)

- = 10 in One Million
- = 5 in One Million
- = 2 in One Million
- = 1 in One Million

IX. GLOBAL CLIMATE CHANGE ANALYSIS

The proposed project is anticipated to generate GHG emissions from area sources, energy usage, mobile sources, waste, water, and construction equipment. The following provides the methodology used to calculate the project-related GHG emissions, the project impacts and a consistency analysis of the proposed project with any applicable GHG reduction plans, policies or regulations.

A. Methodology

The CalEEMod Version 2016.3.2 was used to calculate the GHG emissions from the proposed project. The project's emissions were compared to the tier 3 SCAQMD draft screening threshold of 3,000 metric tons CO2e per year for all land uses.

The CalEEMod Annual Output for year 2020 is available in Appendix C. Each source of GHG emissions is described in greater detail below.

1. Area Sources

Area sources include emissions from hearths, consumer products, landscape equipment and architectural coatings. In order to account for SCAQMD Rule 445, no wood burning stoves or fireplaces will be included, and the CalEEMod defaults for wood burning stoves and fireplaces have been adjusted accordingly. No other changes were made to the default area source parameters.

2. Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No changes were made to default energy usage parameters.

3. Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips from the Technical Memorandum into the CalEEMod Model. Mobile sources were analyzed in the manner described in Section VII above. Please see CalEEMod output comments sections in Appendix C for details.

4. Waste

Waste includes the GHG emissions generated from the processing of waste from the proposed project as well as the GHG emissions from the waste once it is interred into a landfill. No changes were made to the CalEEMod default values for waste generated.

5. Water

Water includes the water used for the interior of the building as well as for landscaping and is based on the GHG emissions associated with the energy used to transport and filter the water. No changes were made to CalEEMod default values for waste generated.

6. Construction

The construction-related GHG emissions were also included in the analysis and were based on a 30 year amortization rate as recommended in the SCAQMD GHG Working Group meeting on November 19, 2009. The construction-related GHG emissions were calculated by CalEEMod and detailed above in Section VI.

7. Sequestration

The analysis includes reduction of GHG emissions from the planting of 64 new trees. CAPCOA states that trees sequester carbon dioxide over 20 years of their life, after that, sequestration is nominal and outweighed by tree maintenance-related emissions. The total sequestration value given in the Annual CalEEMod output (see Appendix C) was divided by 20 years to yield an annual value for each phase, which was then subtracted from the project's emissions.

B. Project Greenhouse Gas Emissions

The GHG emissions have been calculated based on the parameters described above. A summary of the results are shown in Table 19 and the CalEEMod Model run for the proposed project is provided in Appendix C. Table 19 shows that the subtotal for the proposed project's emissions would be 518.75 MTCO2e per year. Furthermore, as shown in Table 19, the project's total emissions (once the operational emissions associated with the existing single-family detached residential dwelling units are deducted) would be 474.54 MTCO2e per year. According to the thresholds of significance established above in Section V above, a cumulative global climate change impact would potentially occur if the GHG emissions created from the on-going operations would exceed the SCAQMD draft local agency tier 3 threshold of 3,000 MTCO2e per year for all land uses. Therefore, operation of the proposed project would not create a significant cumulative impact to global climate change.

The project is also subject to the requirements of the California Green Building Standards Code. On January 12, 2010, the State Building Standards Commission unanimously adopted updates to the California Green Building Standards Code, which went into effect on January 1, 2011. The Code is a comprehensive and uniform regulatory code for all residential, commercial and school buildings.

The California Green Building Standards Code does not prevent a local jurisdiction from adopting a more stringent code as state law provides methods for local enhancements. The Code recognizes that many jurisdictions have developed existing construction and demolition ordinances, and defers to them as the ruling guidance provided they provide a

minimum 65-percent diversion requirement. The code also provides exemptions for areas not served by construction and demolition recycling infrastructure. State building code provides the minimum standard that buildings need to meet in order to be certified for occupancy. Enforcement is generally through the local building official.

The 2016 California Green Building Standards Residential Code (code section in parentheses) requires:

- Water Efficiency and Conservation [Indoor Water Use (4.303.1)].
  Plumbing fixtures and fittings shall comply with the following: 4.303.1.1 Water Closets: ≤ 1.28 gal/flush 4.303.1.2 Wall Mounted Urinals: ≤ 0.125 gal/flush; all other urinals ≤ 0.5 gal/flush 4.303.1.3.1 Single Showerheads: ≤ 2.0 gpm @ 80 psi 4.303.1.3.2 Multiple Showerheads: combined flow rate of all showerheads controlled by a single valve shall not exceed 2.0 gpm @ 80 psi, or only one shower outlet is to be in operation at a time 4.303.1.4.1 Residential Lavatory Faucets: Maximum Flow Rate ≤ 1.2 gpm @ 60 psi; Minimum Flow Rate ≥ 0.8 gpm @ 20 psi 4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas of Residential Buildings: ≤ 0.5 gpm @ 60 psi 4.303.1.4.3 Metering Faucets: ≤ 0.25 gallons per cycle 4.303.1.4.4 Kitchen Faucets: ≤ 1.8 gpm @ 60 psi; temporary increase to 2.2 gpm allowed but shall default to 1.8 gpm.
- Water Efficiency and Conservation [Outdoor Water Use (4.304.1)].
  After December 1, 2015, new residential developments with an aggregate landscape area equal to or greater than 500 square feet shall comply with one of the following: 1. A local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent, or 2. Projects with aggregate landscape areas less than 2500 square feet may comply with the MWELO's Appendix D Prescriptive Compliance Option.
- Construction Waste Reduction of at least 65 percent (4.408.1).
  Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4; OR meet a more stringent local construction and demolition waste management ordinance.

Exceptions:

  - Excavated soil and land-clearing debris.
  - Alternate waste reduction methods developed by working with local enforcing agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the job-site.
  - The enforcing agency may make exceptions to the requirements of this section when job-sites are located in areas beyond the haul boundaries of the diversion facility.

- Materials pollution control (4.504.1 – 4.504.6). Low-pollutant emitting interior finish materials such as paints, carpet, vinyl flooring and particleboard.
- Installer and Special Inspector Qualifications (702.1-702.2). Mandatory special installer inspector qualifications for installation and inspection of energy systems (e.g., heat furnace, air conditioner, mechanical equipment). HVAC system installers shall be trained and certified in the proper installation of HVAC systems and equipment by a recognized training or certification program.

Compliance with 2016 Green Building Standards and 2016 Title 24 Residential Standards is mandatory per the City of Los Angeles.

C. Greenhouse Gas Plan Consistency

The proposed project would have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. As stated previously, the applicable plan for the proposed project is the Green LA Action Plan adopted by the City in May 2007. Per the Green LA Action Plan, the City of Los Angeles is committed to the goal of reducing emissions of CO_2 to 35 percent below 1990 levels.

As stated above, the project's emissions were compared to the SCAQMD's Industrial threshold. The SCAQMD used Executive Order S-3-05 goal as the basis for deriving their screening level thresholds. The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- 2010: Reduce greenhouse gas emissions to 2000 levels
- 2020: Reduce greenhouse gas emissions to 1990 levels
- 2050: Reduce greenhouse gas emissions to 80 percent below 1990 levels.

In 2006, the California State Legislature adopted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which will be phased starting in 2012.

Therefore as the project's emissions meet the threshold for compliance with Executive Order S-3-05, the project's emissions also comply with the goals of AB 32; which is also the goal of the Green LA Action Plan. Additionally, as the project meets the current interim emissions targets/thresholds established by SCAQMD (as described in Section V, Air Quality Standards), the project would also be on track to meet the reduction target of 40 percent below 1990 levels by 2030 mandated by SB-32. Furthermore, all of the post 2020 reductions in GHG emissions are addressed via regulatory requirements at the State level and the project will be required to comply with these regulations as they come into effect.

At a subtotal of 518.75 $MTCO_2e$ per year and a total of 474.54 $MTCO_2e$ per year (see above), the project's GHG emissions fall well below the SCAQMD draft threshold of 3,000 $MTCO_2e$ for all land uses, and is in compliance with the reduction goals of the Green LA Action Plan, AB-32 and SB-32. Furthermore, the project will comply with applicable Green Building Standards and City of Los Angeles' policies regarding sustainability (as dictated by the City's General Plan). Therefore, the proposed project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. Impacts are considered to be less than significant.

Table 19

Project-Related Greenhouse Gas Emissions[1]

Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO2	NonBio-CO_2	CO_2	CH_4	N_2O	CO_2e
Area Sources[2]	0.00	14.91	14.91	0.00	0.00	15.02
Energy Usage[3]	0.00	214.31	214.31	0.00	0.00	214.87
Mobile Sources[4]	0.00	218.06	218.06	0.01	0.00	218.36
Solid Waste[5]	5.98	0.00	5.98	0.35	0.00	14.81
Water[6]	1.32	46.51	47.83	0.14	0.00	52.28
Construction[7]	0.00	5.66	5.66	0.00	0.00	5.68
Sequestration[8]						-2.27
Subtotal Emissions	7.30	499.44	506.74	0.51	0.01	**518.75**
-Existing single-family dwelling units being removed	-0.75	-42.48	-43.24	-0.04	0.00	**-44.21**
Total Emissions	6.55	456.96	463.50	0.47	0.00	**474.54**
SCAQMD Screening Threshold						**3,000**
Exceeds Threshold?						**No**

[1] Source: CalEEMod Version 2016.3.2.

[2] Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.

[3] Energy usage consist of GHG emissions from electricity and natural gas usage.

[4] Mobile sources consist of GHG emissions from vehicles

[5] Solid waste includes the CO_2 and CH_4 emissions created from the solid waste placed in landfills.

[6] Water includes GHG emissions from electricity used for transport of water and processing of wastewater.

[7] Construction GHG emissions CO2e based on a 30 year amortization rate.

[8] Sequestration of 64 trees divided by 20 years, per SCAQMD methodology.

X. AIR QUALITY COMPLIANCE

The California Environmental Quality Act (CEQA) requires a discussion of any inconsistencies between a proposed project and applicable General Plans and Regional Plans (CEQA Guidelines Section 15125). The regional plan that applies to the proposed project includes the SCAQMD Air Quality Management Plan (AQMP). Therefore, this section discusses any potential inconsistencies of the proposed project with the AQMP.

The purpose of this discussion is to set forth the issues regarding consistency with the assumptions and objectives of the AQMP and discuss whether the proposed project would interfere with the region's ability to comply with Federal and State air quality standards. If the decision-makers determine that the proposed project is inconsistent, the lead agency may consider project modifications or inclusion of mitigation to eliminate the inconsistency.

The SCAQMD CEQA Handbook states that "New or amended General Plan Elements (including land use zoning and density amendments), Specific Plans, and significant projects must be analyzed for consistency with the AQMP." Strict consistency with all aspects of the plan is usually not required A proposed project should be considered to be consistent with the AQMP if it furthers one or more policies and does not obstruct other policies. The SCAQMD CEQA Handbook identifies two key indicators of consistency:

(1) Whether the project will result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.
(2) Whether the project will exceed the assumptions in the AQMP in 2016 or increments based on the year of project buildout and phase.

Both of these criteria are evaluated in the following sections.

A. Criterion 1 - Increase in the Frequency or Severity of Violations

Based on the air quality modeling analysis contained in this Air Analysis, short-term construction impacts will not result in significant impacts based on the SCAQMD regional and local thresholds of significance. This Air Analysis also found that long-term operations impacts will not result in significant impacts based on the SCAQMD local and regional thresholds of significance.

Therefore, the proposed project is not projected to contribute to the exceedance of any air pollutant concentration standards and is found to be consistent with the AQMP for the first criterion.

B. Criterion 2 - Exceed Assumptions in the AQMP?

Consistency with the AQMP assumptions is determined by performing an analysis of the proposed project with the assumptions in the AQMP. The emphasis of this criterion is to ensure that the analyses conducted for the proposed project are based on the same forecasts as the AQMP. The 2016-2040 Regional Transportation/Sustainable Communities

Strategy prepared by SCAG (2016) includes chapters on: the challenges in a changing region, creating a plan for our future, and the road to greater mobility and sustainable growth. These chapters currently respond directly to federal and state requirements placed on SCAG. Local governments are required to use these as the basis of their plans for purposes of consistency with applicable regional plans under CEQA. For this project, the City of Los Angeles Land Use Plan defines the assumptions that are represented in the AQMP.

The general plan land use designation for the site is Medium Residential. The development of the site with 42 permanent supportive housing dwelling units and 22 affordable family housing dwelling units would be consistent with the City's land use designation. Therefore, the proposed project is not anticipated to exceed the AQMP assumptions for the project site and is found to be consistent with the AQMP for the second criterion.

Based on the above, the proposed project will not result in an inconsistency with the SCAQMD AQMP. Therefore, a less than significant impact will occur.

XI. MITIGATION MEASURES

A. Construction Measures

Adherence to SCAQMD Rules 403 is required.

No construction mitigation is required.

B. Operational Measures

Compliance with 2016 CalGreen and Title 24 residential standards is required.

No operational mitigation is required.

XII. REFERENCES

California Air Pollution Control Officers Association

2009 Health Risk Assessments for Proposed Land Use Projects

California Air Resources Board

2008 Resolution 08-43

2008 Airborne Toxic Control Measure for in-use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, Section 2477 of Division 3, Chapter 9, Title 13, California Code of Regulations

2008 Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act

2008 ARB Recommended Interim Risk Management Policy for Inhalation-Based Residential Cancer Risk – Frequently Asked Questions

2008 Climate Change Scoping Plan, a framework for change.

2011 Supplement to the AB 32 Scoping Plan Functional Equivalent Document

2013 Almanac of Emissions and Air Quality. Source: https://www.arb.ca.gov/aqd/almanac/almanac13/almanac13.htm

2014 First Update to the Climate Change Scoping Plan, Building on the Framework Pursuant to AB32, the California Global Warming Solutions Act of 2006. May.

2017 California's 2017 Climate Change Scoping Plan. November.

2018 Historical Air Quality, Top 4 Summary

City of Los Angeles

1992 City of Los Angeles General Plan Air Quality Element. November 24.

2007 Green LA: An Action Plan to Lead the Nation in Fighting Global Warming. May.

Governor's Office of Planning and Research

2008 CEQA and Climate: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review

2009 CEQA Guideline Sections to be Added or Amended

Intergovernmental Panel on Climate Change (IPCC).

2014 IPCC Fifth Assessment Report, Climate Change 2014: Synthesis Report

Linscott, Law, & Greenspan, Engineers.
2018 Technical Memorandum - Firmin Court Residential Project. June 28.

Office of Environmental Health Hazard Assessment
2015 Air Toxics Hot Spots Program Risk Assessment Guidelines

South Coast Air Quality Management District
1993 CEQA Air Quality Handbook

2003 Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis

2007 2007 Air Quality Management Plan

2008 Final Localized Significance Threshold Methodology, Revised

2012 Final 2012 Air Quality Management Plan

2015 Final MATES-IV Multiple Air Toxics Exposure Study in the South Coast Air Basin. May.

2016 2016 Air Quality Management Plan

Southern California Association of Governments
2012 2012-2035 Regional Transportation Plan/Sustainable Communities Strategy

U.S. Environmental Protection Agency (EPA)
2017 Understanding Global Warming Potentials
(Source: https://www.epa.gov/ghgemissions/understanding-global-warming-potentials)

U.S. Geological Survey
2011 Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California

APPENDICES

Appendix A – Glossary of Terms

Appendix B – CalEEMod Model Daily Emissions Printouts

Appendix C – CalEEMod Model Annual Emissions Printouts

Appendix D – AERMOD Model Printouts

APPENDIX A

Glossary of Terms

AQMP	Air Quality Management Plan
BACT	Best Available Control Technologies
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CH_4	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalent
DPM	Diesel particulate matter
EPA	U.S. Environmental Protection Agency
GHG	Greenhouse gas
GWP	Global warming potential
HIDPM	Hazard Index Diesel Particulate Matter
HFCs	Hydrofluorocarbons
IPCC	International Panel on Climate Change
LCFS	Low Carbon Fuel Standard
LST	Localized Significant Thresholds
$MTCO_2e$	Metric tons of carbon dioxide equivalent
$MMTCO_2e$	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NOx	Nitrogen Oxides
NO_2	Nitrogen dioxide
N_2O	Nitrous oxide
OEHHA	California Office of Environmental Health Hazard Assessment
O_3	Ozone
OPR	Governor's Office of Planning and Research
PFCs	Perfluorocarbons
PM	Particle matter
PM10	Particles that are less than 10 micrometers in diameter
PM2.5	Particles that are less than 2.5 micrometers in diameter
PMI	Point of maximum impact
PPM	Parts per million
PPB	Parts per billion
RTIP	Regional Transportation Improvement Plan
RTP	Regional Transportation Plan
SANBAG	San Bernardino Association of Governments
SCAB	South Coast Air Basin

SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SF_6	Sulfur hexafluoride
SIP	State Implementation Plan
SOx	Sulfur Oxides
TAC	Toxic air contaminants
VOC	Volatile organic compounds

APPENDIX B

CalEEMod Model Daily Emissions Printouts

7427a Firmin Court

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	10.00	Space	0.27	11,793.00	0
Other Non-Asphalt Surfaces	0.13	Acre	0.13	5,662.80	0
Apartments Mid Rise	42.00	Dwelling Unit	0.00	33,665.00	120
Condo/Townhouse High Rise	22.00	Dwelling Unit	0.00	17,634.00	63

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

7427a Firmin Court - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - 17,330sf (~0.4 ac) w/ 42 permanent supporitve housing units, 22 affordable family housing units, 10 prkng spcs in lower level, & rmnder lndscpng/setbacks. Total residential floor area is 51,299 sf.

Construction Phase - Construction to begin March 2019 & take ~18 months to complete. Per applicant, ~5 months for demo/grading/excavation & ~13 months for building construction.

Demolition - Demolition of an ~1,332 square foot existing building (other existing building to be relocated).

Grading - 1,344 CY export.

Vehicle Trips - Per Technical Traffic Memo, 1.27 trips/DU for permanent supportive housing & 4.08 trips/DU for affordable family housing.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

Sequestration - Per Site Plans, ~64 new trees to be planted.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - 64 DU/0.4 ac=160 DU/acre. Site is ~0.03 miles northwest of Metro 92 & 10/48 stop Temple/Boylston & 1.01 miles northwest of downtown LA.

Waste Mitigation - AB 341 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	85.00
tblConstructionPhase	NumDays	2.00	24.00
tblConstructionPhase	NumDays	100.00	261.00
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	5.00	11.00
tblFireplaces	NumberGas	18.70	19.80
tblFireplaces	NumberGas	35.70	37.80
tblFireplaces	NumberWood	1.10	0.00
tblFireplaces	NumberWood	2.10	0.00
tblGrading	MaterialExported	0.00	1,344.00
tblLandUse	LandUseSquareFeet	4,000.00	11,793.00
tblLandUse	LandUseSquareFeet	42,000.00	33,665.00

tblLandUse	LandUseSquareFeet	22,000.00	17,634.00
tblLandUse	LotAcreage	0.09	0.27
tblLandUse	LotAcreage	1.11	0.00
tblLandUse	LotAcreage	0.34	0.00
tblSequestration	NumberOfNewTrees	0.00	64.00
tblVehicleTrips	ST_TR	4.31	4.08
tblVehicleTrips	ST_TR	6.39	1.27
tblVehicleTrips	SU_TR	3.43	4.08
tblVehicleTrips	SU_TR	5.86	1.27
tblVehicleTrips	WD_TR	4.18	4.08
tblVehicleTrips	WD_TR	6.65	1.27
tblWoodstoves	NumberCatalytic	1.10	0.00
tblWoodstoves	NumberCatalytic	2.10	0.00
tblWoodstoves	NumberNoncatalytic	1.10	0.00
tblWoodstoves	NumberNoncatalytic	2.10	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.2639	11.1726	10.4057	0.0205	0.9933	0.6179	1.5392	0.4779	0.5687	0.9988	0.0000	2,049.3493	2,049.3493	0.3967	0.0000	2,059.2675
2020	29.9149	10.0896	9.9868	0.0202	0.6564	0.5323	1.1888	0.1755	0.4899	0.6655	0.0000	2,003.3426	2,003.3426	0.3933	0.0000	2,013.1747
Maximum	**29.9149**	**11.1726**	**10.4057**	**0.0205**	**0.9933**	**0.6179**	**1.5392**	**0.4779**	**0.5687**	**0.9988**	**0.0000**	**2,049.3493**	**2,049.3493**	**0.3967**	**0.0000**	**2,059.2675**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.2639	11.1726	10.4057	0.0205	0.6564	0.6179	1.2743	0.2249	0.5687	0.7458	0.0000	2,049.3493	2,049.3493	0.3967	0.0000	2,059.2675
2020	29.9149	10.0896	9.9868	0.0202	0.6564	0.5323	1.1888	0.1755	0.4899	0.6655	0.0000	2,003.3426	2,003.3426	0.3933	0.0000	2,013.1747
Maximum	**29.9149**	**11.1726**	**10.4057**	**0.0205**	**0.6564**	**0.6179**	**1.2743**	**0.2249**	**0.5687**	**0.7458**	**0.0000**	**2,049.3493**	**2,049.3493**	**0.3967**	**0.0000**	**2,059.2675**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**20.42**	**0.00**	**9.71**	**38.71**	**0.00**	**15.20**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3844	1.0168	5.7053	6.3800e-003		0.1064	0.1064		0.1064	0.1064	0.0000	1,229.2743	1,229.2743	0.0327	0.0224	1,236.7546
Energy	0.0174	0.1489	0.0634	9.5000e-004		0.0120	0.0120		0.0120	0.0120		190.1319	190.1319	3.6400e-003	3.4900e-003	191.2617
Mobile	0.3009	1.4147	4.1399	0.0135	1.0398	0.0134	1.0533	0.2783	0.0126	0.2909		1,369.0437	1,369.0437	0.0742		1,370.8989
Total	**1.7027**	**2.5804**	**9.9086**	**0.0208**	**1.0398**	**0.1319**	**1.1717**	**0.2783**	**0.1310**	**0.4093**	**0.0000**	**2,788.4498**	**2,788.4498**	**0.1105**	**0.0259**	**2,798.9153**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3844	1.0168	5.7053	6.3800e-003		0.1064	0.1064		0.1064	0.1064	0.0000	1,229.2743	1,229.2743	0.0327	0.0224	1,236.7546
Energy	0.0174	0.1489	0.0634	9.5000e-004		0.0120	0.0120		0.0120	0.0120		190.1319	190.1319	3.6400e-003	3.4900e-003	191.2617
Mobile	0.2233	0.9143	2.1403	6.2700e-003	0.4543	6.3800e-003	0.4607	0.1216	5.9800e-003	0.1276		637.5338	637.5338	0.0382		638.4894
Total	**1.6251**	**2.0800**	**7.9090**	**0.0136**	**0.4543**	**0.1248**	**0.5792**	**0.1216**	**0.1244**	**0.2460**	**0.0000**	**2,056.9400**	**2,056.9400**	**0.0745**	**0.0259**	**2,066.5058**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**4.56**	**19.39**	**20.18**	**34.65**	**56.31**	**5.35**	**50.57**	**56.31**	**5.05**	**39.90**	**0.00**	**26.23**	**26.23**	**32.57**	**0.00**	**26.17**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2019	6/27/2019	5	85	
2	Grading	Grading	6/28/2019	7/31/2019	5	24	
3	Building Construction	Building Construction	8/1/2019	7/30/2020	5	261	
4	Paving	Paving	7/31/2020	8/14/2020	5	11	
5	Architectural Coating	Architectural Coating	8/15/2020	8/31/2020	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.4

Residential Indoor: 103,880; Residential Outdoor: 34,627; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,047 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	168.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	53.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0154	0.0000	0.0154	2.3400e-003	0.0000	2.3400e-003			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	**0.9530**	**8.6039**	**7.6917**	**0.0120**	**0.0154**	**0.5371**	**0.5525**	**2.3400e-003**	**0.5125**	**0.5148**		**1,159.6570**	**1,159.6570**	**0.2211**		**1,165.1847**

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.6000e-004	0.0216	4.6100e-003	6.0000e-005	1.2300e-003	8.0000e-005	1.3100e-003	3.4000e-004	8.0000e-005	4.1000e-004		6.1024	6.1024	4.2000e-004		6.1129
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0500	0.0367	0.4822	1.2200e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		121.2953	121.2953	4.1700e-003		121.3995
Total	**0.0506**	**0.0583**	**0.4868**	**1.2800e-003**	**0.1130**	**1.0400e-003**	**0.1141**	**0.0300**	**9.7000e-004**	**0.0309**		**127.3977**	**127.3977**	**4.5900e-003**		**127.5124**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0200e-003	0.0000	6.0200e-003	9.1000e-004	0.0000	9.1000e-004			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	**0.9530**	**8.6039**	**7.6917**	**0.0120**	**6.0200e-003**	**0.5371**	**0.5431**	**9.1000e-004**	**0.5125**	**0.5134**	**0.0000**	**1,159.6570**	**1,159.6570**	**0.2211**		**1,165.1847**

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.6000e-004	0.0216	4.6100e-003	6.0000e-005	1.2300e-003	8.0000e-005	1.3100e-003	3.4000e-004	8.0000e-005	4.1000e-004		6.1024	6.1024	4.2000e-004		6.1129
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0500	0.0367	0.4822	1.2200e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		121.2953	121.2953	4.1700e-003		121.3995
Total	**0.0506**	**0.0583**	**0.4868**	**1.2800e-003**	**0.1130**	**1.0400e-003**	**0.1141**	**0.0300**	**9.7000e-004**	**0.0309**		**127.3977**	**127.3977**	**4.5900e-003**		**127.5124**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7591	0.0000	0.7591	0.4147	0.0000	0.4147			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	**0.9530**	**8.6039**	**7.6917**	**0.0120**	**0.7591**	**0.5371**	**1.2962**	**0.4147**	**0.5125**	**0.9272**		**1,159.6570**	**1,159.6570**	**0.2211**		**1,165.1847**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0658	2.1440	0.4571	5.5900e-003	0.1224	7.8700e-003	0.1303	0.0336	7.5300e-003	0.0411		605.1582	605.1582	0.0417		606.2001
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0500	0.0367	0.4822	1.2200e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		121.2953	121.2953	4.1700e-003		121.3995
Total	**0.1157**	**2.1807**	**0.9393**	**6.8100e-003**	**0.2342**	**8.8300e-003**	**0.2430**	**0.0632**	**8.4200e-003**	**0.0716**		**726.4535**	**726.4535**	**0.0459**		**727.5996**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2961	0.0000	0.2961	0.1618	0.0000	0.1618			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	**0.9530**	**8.6039**	**7.6917**	**0.0120**	**0.2961**	**0.5371**	**0.8331**	**0.1618**	**0.5125**	**0.6742**	**0.0000**	**1,159.6570**	**1,159.6570**	**0.2211**		**1,165.1847**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0658	2.1440	0.4571	5.5900e-003	0.1224	7.8700e-003	0.1303	0.0336	7.5300e-003	0.0411		605.1582	605.1582	0.0417		606.2001
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0500	0.0367	0.4822	1.2200e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		121.2953	121.2953	4.1700e-003		121.3995
Total	**0.1157**	**2.1807**	**0.9393**	**6.8100e-003**	**0.2342**	**8.8300e-003**	**0.2430**	**0.0632**	**8.4200e-003**	**0.0716**		**726.4535**	**726.4535**	**0.0459**		**727.5996**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892
Total	**0.9576**	**9.8207**	**7.5432**	**0.0114**		**0.6054**	**0.6054**		**0.5569**	**0.5569**		**1,127.6696**	**1,127.6696**	**0.3568**		**1,136.5892**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0416	1.1573	0.3071	2.6100e-003	0.0640	7.3800e-003	0.0714	0.0184	7.0600e-003	0.0255		278.8146	278.8146	0.0179		279.2613
Worker	0.2648	0.1946	2.5555	6.4600e-003	0.5924	5.1100e-003	0.5975	0.1571	4.7100e-003	0.1618		642.8650	642.8650	0.0221		643.4171
Total	**0.3063**	**1.3519**	**2.8626**	**9.0700e-003**	**0.6564**	**0.0125**	**0.6689**	**0.1755**	**0.0118**	**0.1873**		**921.6797**	**921.6797**	**0.0400**		**922.6784**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892
Total	**0.9576**	**9.8207**	**7.5432**	**0.0114**		**0.6054**	**0.6054**		**0.5569**	**0.5569**	**0.0000**	**1,127.6696**	**1,127.6696**	**0.3568**		**1,136.5892**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0416	1.1573	0.3071	2.6100e-003	0.0640	7.3800e-003	0.0714	0.0184	7.0600e-003	0.0255		278.8146	278.8146	0.0179		279.2613
Worker	0.2648	0.1946	2.5555	6.4600e-003	0.5924	5.1100e-003	0.5975	0.1571	4.7100e-003	0.1618		642.8650	642.8650	0.0221		643.4171
Total	**0.3063**	**1.3519**	**2.8626**	**9.0700e-003**	**0.6564**	**0.0125**	**0.6689**	**0.1755**	**0.0118**	**0.1873**		**921.6797**	**921.6797**	**0.0400**		**922.6784**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.9781	1,102.9781	0.3567		1,111.8962
Total	**0.8617**	**8.8523**	**7.3875**	**0.0114**		**0.5224**	**0.5224**		**0.4806**	**0.4806**		**1,102.9781**	**1,102.9781**	**0.3567**		**1,111.8962**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0356	1.0637	0.2787	2.5900e-003	0.0640	5.0100e-003	0.0690	0.0184	4.7900e-003	0.0232		277.0247	277.0247	0.0169		277.4473
Worker	0.2439	0.1735	2.3206	6.2600e-003	0.5924	4.9500e-003	0.5974	0.1571	4.5600e-003	0.1617		623.3398	623.3398	0.0197		623.8311
Total	**0.2795**	**1.2372**	**2.5993**	**8.8500e-003**	**0.6564**	**9.9600e-003**	**0.6664**	**0.1755**	**9.3500e-003**	**0.1849**		**900.3645**	**900.3645**	**0.0366**		**901.2785**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962
Total	**0.8617**	**8.8523**	**7.3875**	**0.0114**		**0.5224**	**0.5224**		**0.4806**	**0.4806**	**0.0000**	**1,102.9781**	**1,102.9781**	**0.3567**		**1,111.8962**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0356	1.0637	0.2787	2.5900e-003	0.0640	5.0100e-003	0.0690	0.0184	4.7900e-003	0.0232		277.0247	277.0247	0.0169		277.4473
Worker	0.2439	0.1735	2.3206	6.2600e-003	0.5924	4.9500e-003	0.5974	0.1571	4.5600e-003	0.1617		623.3398	623.3398	0.0197		623.8311
Total	**0.2795**	**1.2372**	**2.5993**	**8.8500e-003**	**0.6564**	**9.9600e-003**	**0.6664**	**0.1755**	**9.3500e-003**	**0.1849**		**900.3645**	**900.3645**	**0.0366**		**901.2785**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7716**	**7.2266**	**7.1128**	**0.0113**		**0.3950**	**0.3950**		**0.3669**	**0.3669**		**1,035.3926**	**1,035.3926**	**0.3016**		**1,042.9323**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7716**	**7.2266**	**7.1128**	**0.0113**		**0.3950**	**0.3950**		**0.3669**	**0.3669**	**0.0000**	**1,035.3926**	**1,035.3926**	**0.3016**		**1,042.9323**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.6221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	**29.8643**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0506	0.0360	0.4816	1.3000e-003	0.1230	1.0300e-003	0.1240	0.0326	9.5000e-004	0.0336		129.3724	129.3724	4.0800e-003		129.4744
Total	**0.0506**	**0.0360**	**0.4816**	**1.3000e-003**	**0.1230**	**1.0300e-003**	**0.1240**	**0.0326**	**9.5000e-004**	**0.0336**		**129.3724**	**129.3724**	**4.0800e-003**		**129.4744**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.6221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**29.8643**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0506	0.0360	0.4816	1.3000e-003	0.1230	1.0300e-003	0.1240	0.0326	9.5000e-004	0.0336		129.3724	129.3724	4.0800e-003		129.4744
Total	**0.0506**	**0.0360**	**0.4816**	**1.3000e-003**	**0.1230**	**1.0300e-003**	**0.1240**	**0.0326**	**9.5000e-004**	**0.0336**		**129.3724**	**129.3724**	**4.0800e-003**		**129.4744**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2233	0.9143	2.1403	6.2700e-003	0.4543	6.3800e-003	0.4607	0.1216	5.9800e-003	0.1276		637.5338	637.5338	0.0382		638.4894
Unmitigated	0.3009	1.4147	4.1399	0.0135	1.0398	0.0134	1.0533	0.2783	0.0126	0.2909		1,369.0437	1,369.0437	0.0742		1,370.8989

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	89.76	89.76	89.76	306,724	134,018
Apartments Mid Rise	53.34	53.34	53.34	182,271	79,640
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	143.10	143.10	143.10	488,994	213,658

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Apartments Mid Rise	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Enclosed Parking with Elevator	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Other Non-Asphalt Surfaces	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0174	0.1489	0.0634	9.5000e-004		0.0120	0.0120		0.0120	0.0120		190.1319	190.1319	3.6400e-003	3.4900e-003	191.2617
NaturalGas Unmitigated	0.0174	0.1489	0.0634	9.5000e-004		0.0120	0.0120		0.0120	0.0120		190.1319	190.1319	3.6400e-003	3.4900e-003	191.2617

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1060.58	0.0114	0.0977	0.0416	6.2000e-004		7.9000e-003	7.9000e-003		7.9000e-003	7.9000e-003		124.7741	124.7741	2.3900e-003	2.2900e-003	125.5155
Condo/Townhouse High Rise	555.542	5.9900e-003	0.0512	0.0218	3.3000e-004		4.1400e-003	4.1400e-003		4.1400e-003	4.1400e-003		65.3578	65.3578	1.2500e-003	1.2000e-003	65.7462
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0174**	**0.1489**	**0.0634**	**9.5000e-004**		**0.0120**	**0.0120**		**0.0120**	**0.0120**		**190.1319**	**190.1319**	**3.6400e-003**	**3.4900e-003**	**191.2617**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1.06058	0.0114	0.0977	0.0416	6.2000e-004		7.9000e-003	7.9000e-003		7.9000e-003	7.9000e-003		124.7741	124.7741	2.3900e-003	2.2900e-003	125.5155
Condo/Townhouse High Rise	0.555542	5.9900e-003	0.0512	0.0218	3.3000e-004		4.1400e-003	4.1400e-003		4.1400e-003	4.1400e-003		65.3578	65.3578	1.2500e-003	1.2000e-003	65.7462
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0174**	**0.1489**	**0.0634**	**9.5000e-004**		**0.0120**	**0.0120**		**0.0120**	**0.0120**		**190.1319**	**190.1319**	**3.6400e-003**	**3.4900e-003**	**191.2617**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3844	1.0168	5.7053	6.3800e-003		0.1064	0.1064		0.1064	0.1064	0.0000	1,229.2743	1,229.2743	0.0327	0.0224	1,236.7546
Unmitigated	1.3844	1.0168	5.7053	6.3800e-003		0.1064	0.1064		0.1064	0.1064	0.0000	1,229.2743	1,229.2743	0.0327	0.0224	1,236.7546

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0219					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1118	0.9555	0.4066	6.1000e-003		0.0773	0.0773		0.0773	0.0773	0.0000	1,219.7647	1,219.7647	0.0234	0.0224	1,227.0132
Landscaping	0.1614	0.0613	5.2987	2.8000e-004		0.0291	0.0291		0.0291	0.0291		9.5096	9.5096	9.2800e-003		9.7415
Total	**1.3844**	**1.0168**	**5.7053**	**6.3800e-003**		**0.1064**	**0.1064**		**0.1064**	**0.1064**	**0.0000**	**1,229.2743**	**1,229.2743**	**0.0327**	**0.0224**	**1,236.7546**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0219					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1118	0.9555	0.4066	6.1000e-003		0.0773	0.0773		0.0773	0.0773	0.0000	1,219.7647	1,219.7647	0.0234	0.0224	1,227.0132
Landscaping	0.1614	0.0613	5.2987	2.8000e-004		0.0291	0.0291		0.0291	0.0291		9.5096	9.5096	9.2800e-003		9.7415
Total	**1.3844**	**1.0168**	**5.7053**	**6.3800e-003**		**0.1064**	**0.1064**		**0.1064**	**0.1064**	**0.0000**	**1,229.2743**	**1,229.2743**	**0.0327**	**0.0224**	**1,236.7546**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

7427a Firmin Court

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	10.00	Space	0.27	11,793.00	0
Other Non-Asphalt Surfaces	0.13	Acre	0.13	5,662.80	0
Apartments Mid Rise	42.00	Dwelling Unit	0.00	33,665.00	120
Condo/Townhouse High Rise	22.00	Dwelling Unit	0.00	17,634.00	63

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

7427a Firmin Court - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - 17,330sf (~0.4 ac) w/ 42 permanent supporitve housing units, 22 affordable family housing units, 10 prkng spcs in lower level, & rmnder lndscpng/setbacks. Total residential floor area is 51,299 sf.

Construction Phase - Construction to begin March 2019 & take ~18 months to complete. Per applicant, ~5 months for demo/grading/excavation & ~13 months for building construction.

Demolition - Demolition of an ~1,332 square foot existing building (other existing building to be relocated).

Grading - 1,344 CY export.

Vehicle Trips - Per Technical Traffic Memo, 1.27 trips/DU for permanent supportive housing & 4.08 trips/DU for affordable family housing.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

Sequestration - Per Site Plans, ~64 new trees to be planted.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - 64 DU/0.4 ac=160 DU/acre. Site is ~0.03 miles northwest of Metro 92 & 10/48 stop Temple/Boylston & 1.01 miles northwest of downtown LA.

Waste Mitigation - AB 347 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	85.00
tblConstructionPhase	NumDays	2.00	24.00
tblConstructionPhase	NumDays	100.00	261.00
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	5.00	11.00
tblFireplaces	NumberGas	18.70	19.80
tblFireplaces	NumberGas	35.70	37.80
tblFireplaces	NumberWood	1.10	0.00
tblFireplaces	NumberWood	2.10	0.00
tblGrading	MaterialExported	0.00	1,344.00
tblLandUse	LandUseSquareFeet	4,000.00	11,793.00
tblLandUse	LandUseSquareFeet	42,000.00	33,665.00

tblLandUse	LandUseSquareFeet	22,000.00	17,634.00
tblLandUse	LotAcreage	0.09	0.27
tblLandUse	LotAcreage	1.11	0.00
tblLandUse	LotAcreage	0.34	0.00
tblSequestration	NumberOfNewTrees	0.00	64.00
tblVehicleTrips	ST_TR	4.31	4.08
tblVehicleTrips	ST_TR	6.39	1.27
tblVehicleTrips	SU_TR	3.43	4.08
tblVehicleTrips	SU_TR	5.86	1.27
tblVehicleTrips	WD_TR	4.18	4.08
tblVehicleTrips	WD_TR	6.65	1.27
tblWoodstoves	NumberCatalytic	1.10	0.00
tblWoodstoves	NumberCatalytic	2.10	0.00
tblWoodstoves	NumberNoncatalytic	1.10	0.00
tblWoodstoves	NumberNoncatalytic	2.10	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.2944	11.1950	10.2268	0.0200	0.9933	0.6180	1.5393	0.4779	0.5688	0.9990	0.0000	2,004.2761	2,004.2761	0.3967	0.0000	2,014.1926
2020	29.9205	10.1079	9.8202	0.0198	0.6564	0.5324	1.1889	0.1755	0.4900	0.6656	0.0000	1,959.3600	1,959.3600	0.3933	0.0000	1,969.1910
Maximum	**29.9205**	**11.1950**	**10.2268**	**0.0200**	**0.9933**	**0.6180**	**1.5393**	**0.4779**	**0.5688**	**0.9990**	**0.0000**	**2,004.2761**	**2,004.2761**	**0.3967**	**0.0000**	**2,014.1926**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	1.2944	11.1950	10.2268	0.0200	0.6564	0.6180	1.2744	0.2249	0.5688	0.7460	0.0000	2,004.2761	2,004.2761	0.3967	0.0000	2,014.1926
2020	29.9205	10.1079	9.8202	0.0198	0.6564	0.5324	1.1889	0.1755	0.4900	0.6656	0.0000	1,959.3600	1,959.3600	0.3933	0.0000	1,969.1910
Maximum	**29.9205**	**11.1950**	**10.2268**	**0.0200**	**0.6564**	**0.6180**	**1.2744**	**0.2249**	**0.5688**	**0.7460**	**0.0000**	**2,004.2761**	**2,004.2761**	**0.3967**	**0.0000**	**2,014.1926**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**20.42**	**0.00**	**9.71**	**38.71**	**0.00**	**15.20**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3844	1.0168	5.7053	6.3800e-003		0.1064	0.1064		0.1064	0.1064	0.0000	1,229.2743	1,229.2743	0.0327	0.0224	1,236.7546
Energy	0.0174	0.1489	0.0634	9.5000e-004		0.0120	0.0120		0.0120	0.0120		190.1319	190.1319	3.6400e-003	3.4900e-003	191.2617
Mobile	0.2928	1.4548	3.9339	0.0128	1.0398	0.0135	1.0533	0.2783	0.0127	0.2910		1,302.4433	1,302.4433	0.0738		1,304.2883
Total	**1.6947**	**2.6205**	**9.7025**	**0.0202**	**1.0398**	**0.1319**	**1.1718**	**0.2783**	**0.1311**	**0.4094**	**0.0000**	**2,721.8494**	**2,721.8494**	**0.1101**	**0.0259**	**2,732.3047**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3844	1.0168	5.7053	6.3800e-003		0.1064	0.1064		0.1064	0.1064	0.0000	1,229.2743	1,229.2743	0.0327	0.0224	1,236.7546
Energy	0.0174	0.1489	0.0634	9.5000e-004		0.0120	0.0120		0.0120	0.0120		190.1319	190.1319	3.6400e-003	3.4900e-003	191.2617
Mobile	0.2171	0.9251	2.1178	5.9500e-003	0.4543	6.4400e-003	0.4608	0.1216	6.0400e-003	0.1276		604.8840	604.8840	0.0388		605.8541
Total	**1.6190**	**2.0908**	**7.8864**	**0.0133**	**0.4543**	**0.1249**	**0.5792**	**0.1216**	**0.1245**	**0.2461**	**0.0000**	**2,024.2902**	**2,024.2902**	**0.0751**	**0.0259**	**2,033.8705**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**4.47**	**20.21**	**18.72**	**34.09**	**56.31**	**5.34**	**50.57**	**56.31**	**5.04**	**39.89**	**0.00**	**25.63**	**25.63**	**31.79**	**0.00**	**25.56**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2019	6/27/2019	5	85	
2	Grading	Grading	6/28/2019	7/31/2019	5	24	
3	Building Construction	Building Construction	8/1/2019	7/30/2020	5	261	
4	Paving	Paving	7/31/2020	8/14/2020	5	11	
5	Architectural Coating	Architectural Coating	8/15/2020	8/31/2020	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.4

Residential Indoor: 103,880; Residential Outdoor: 34,627; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,047 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	168.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	53.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0154	0.0000	0.0154	2.3400e-003	0.0000	2.3400e-003			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	**0.9530**	**8.6039**	**7.6917**	**0.0120**	**0.0154**	**0.5371**	**0.5525**	**2.3400e-003**	**0.5125**	**0.5148**		**1,159.6570**	**1,159.6570**	**0.2211**		**1,165.1847**

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.8000e-004	0.0219	4.9200e-003	6.0000e-005	1.2300e-003	8.0000e-005	1.3100e-003	3.4000e-004	8.0000e-005	4.2000e-004		5.9989	5.9989	4.4000e-004		6.0099
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0407	0.4425	1.1500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		114.2131	114.2131	3.9300e-003		114.3113
Total	**0.0561**	**0.0626**	**0.4474**	**1.2100e-003**	**0.1130**	**1.0400e-003**	**0.1141**	**0.0300**	**9.7000e-004**	**0.0310**		**120.2120**	**120.2120**	**4.3700e-003**		**120.3212**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0200e-003	0.0000	6.0200e-003	9.1000e-004	0.0000	9.1000e-004			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	**0.9530**	**8.6039**	**7.6917**	**0.0120**	**6.0200e-003**	**0.5371**	**0.5431**	**9.1000e-004**	**0.5125**	**0.5134**	**0.0000**	**1,159.6570**	**1,159.6570**	**0.2211**		**1,165.1847**

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.8000e-004	0.0219	4.9200e-003	6.0000e-005	1.2300e-003	8.0000e-005	1.3100e-003	3.4000e-004	8.0000e-005	4.2000e-004		5.9989	5.9989	4.4000e-004		6.0099
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0407	0.4425	1.1500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		114.2131	114.2131	3.9300e-003		114.3113
Total	**0.0561**	**0.0626**	**0.4474**	**1.2100e-003**	**0.1130**	**1.0400e-003**	**0.1141**	**0.0300**	**9.7000e-004**	**0.0310**		**120.2120**	**120.2120**	**4.3700e-003**		**120.3212**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7591	0.0000	0.7591	0.4147	0.0000	0.4147			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	**0.9530**	**8.6039**	**7.6917**	**0.0120**	**0.7591**	**0.5371**	**1.2962**	**0.4147**	**0.5125**	**0.9272**		**1,159.6570**	**1,159.6570**	**0.2211**		**1,165.1847**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0674	2.1726	0.4880	5.5000e-003	0.1224	8.0100e-003	0.1304	0.0336	7.6700e-003	0.0412		594.8948	594.8948	0.0433		595.9764
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0407	0.4425	1.1500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		114.2131	114.2131	3.9300e-003		114.3113
Total	**0.1228**	**2.2133**	**0.9305**	**6.6500e-003**	**0.2342**	**8.9700e-003**	**0.2431**	**0.0632**	**8.5600e-003**	**0.0718**		**709.1079**	**709.1079**	**0.0472**		**710.2877**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2961	0.0000	0.2961	0.1618	0.0000	0.1618			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	**0.9530**	**8.6039**	**7.6917**	**0.0120**	**0.2961**	**0.5371**	**0.8331**	**0.1618**	**0.5125**	**0.6742**	**0.0000**	**1,159.6570**	**1,159.6570**	**0.2211**		**1,165.1847**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0674	2.1726	0.4880	5.5000e-003	0.1224	8.0100e-003	0.1304	0.0336	7.6700e-003	0.0412		594.8948	594.8948	0.0433		595.9764
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0407	0.4425	1.1500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		114.2131	114.2131	3.9300e-003		114.3113
Total	**0.1228**	**2.2133**	**0.9305**	**6.6500e-003**	**0.2342**	**8.9700e-003**	**0.2431**	**0.0632**	**8.5600e-003**	**0.0718**		**709.1079**	**709.1079**	**0.0472**		**710.2877**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892
Total	**0.9576**	**9.8207**	**7.5432**	**0.0114**		**0.6054**	**0.6054**		**0.5569**	**0.5569**		**1,127.6696**	**1,127.6696**	**0.3568**		**1,136.5892**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0433	1.1589	0.3385	2.5400e-003	0.0640	7.5000e-003	0.0715	0.0184	7.1700e-003	0.0256		271.2771	271.2771	0.0191		271.7535
Worker	0.2935	0.2155	2.3451	6.0800e-003	0.5924	5.1100e-003	0.5975	0.1571	4.7100e-003	0.1618		605.3293	605.3293	0.0208		605.8499
Total	**0.3368**	**1.3743**	**2.6836**	**8.6200e-003**	**0.6564**	**0.0126**	**0.6690**	**0.1755**	**0.0119**	**0.1874**		**876.6064**	**876.6064**	**0.0399**		**877.6035**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892
Total	**0.9576**	**9.8207**	**7.5432**	**0.0114**		**0.6054**	**0.6054**		**0.5569**	**0.5569**	**0.0000**	**1,127.6696**	**1,127.6696**	**0.3568**		**1,136.5892**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0433	1.1589	0.3385	2.5400e-003	0.0640	7.5000e-003	0.0715	0.0184	7.1700e-003	0.0256		271.2771	271.2771	0.0191		271.7535
Worker	0.2935	0.2155	2.3451	6.0800e-003	0.5924	5.1100e-003	0.5975	0.1571	4.7100e-003	0.1618		605.3293	605.3293	0.0208		605.8499
Total	**0.3368**	**1.3743**	**2.6836**	**8.6200e-003**	**0.6564**	**0.0126**	**0.6690**	**0.1755**	**0.0119**	**0.1874**		**876.6064**	**876.6064**	**0.0399**		**877.6035**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.9781	1,102.9781	0.3567		1,111.8962
Total	**0.8617**	**8.8523**	**7.3875**	**0.0114**		**0.5224**	**0.5224**		**0.4806**	**0.4806**		**1,102.9781**	**1,102.9781**	**0.3567**		**1,111.8962**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0372	1.0635	0.3074	2.5200e-003	0.0640	5.0900e-003	0.0691	0.0184	4.8700e-003	0.0233		269.4491	269.4491	0.0180		269.8995
Worker	0.2708	0.1921	2.1254	5.8900e-003	0.5924	4.9500e-003	0.5974	0.1571	4.5600e-003	0.1617		586.9328	586.9328	0.0185		587.3953
Total	**0.3080**	**1.2556**	**2.4327**	**8.4100e-003**	**0.6564**	**0.0100**	**0.6665**	**0.1755**	**9.4300e-003**	**0.1850**		**856.3819**	**856.3819**	**0.0365**		**857.2948**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962
Total	**0.8617**	**8.8523**	**7.3875**	**0.0114**		**0.5224**	**0.5224**		**0.4806**	**0.4806**	**0.0000**	**1,102.9781**	**1,102.9781**	**0.3567**		**1,111.8962**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0372	1.0635	0.3074	2.5200e-003	0.0640	5.0900e-003	0.0691	0.0184	4.8700e-003	0.0233		269.4491	269.4491	0.0180		269.8995
Worker	0.2708	0.1921	2.1254	5.8900e-003	0.5924	4.9500e-003	0.5974	0.1571	4.5600e-003	0.1617		586.9328	586.9328	0.0185		587.3953
Total	**0.3080**	**1.2556**	**2.4327**	**8.4100e-003**	**0.6564**	**0.0100**	**0.6665**	**0.1755**	**9.4300e-003**	**0.1850**		**856.3819**	**856.3819**	**0.0365**		**857.2948**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7716**	**7.2266**	**7.1128**	**0.0113**		**0.3950**	**0.3950**		**0.3669**	**0.3669**		**1,035.3926**	**1,035.3926**	**0.3016**		**1,042.9323**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7716**	**7.2266**	**7.1128**	**0.0113**		**0.3950**	**0.3950**		**0.3669**	**0.3669**	**0.0000**	**1,035.3926**	**1,035.3926**	**0.3016**		**1,042.9323**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.6221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	**29.8643**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0562	0.0399	0.4411	1.2200e-003	0.1230	1.0300e-003	0.1240	0.0326	9.5000e-004	0.0336		121.8162	121.8162	3.8400e-003		121.9122
Total	**0.0562**	**0.0399**	**0.4411**	**1.2200e-003**	**0.1230**	**1.0300e-003**	**0.1240**	**0.0326**	**9.5000e-004**	**0.0336**		**121.8162**	**121.8162**	**3.8400e-003**		**121.9122**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.6221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**29.8643**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0562	0.0399	0.4411	1.2200e-003	0.1230	1.0300e-003	0.1240	0.0326	9.5000e-004	0.0336		121.8162	121.8162	3.8400e-003		121.9122
Total	**0.0562**	**0.0399**	**0.4411**	**1.2200e-003**	**0.1230**	**1.0300e-003**	**0.1240**	**0.0326**	**9.5000e-004**	**0.0336**		**121.8162**	**121.8162**	**3.8400e-003**		**121.9122**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2171	0.9251	2.1178	5.9500e-003	0.4543	6.4400e-003	0.4608	0.1216	6.0400e-003	0.1276		604.8840	604.8840	0.0388		605.8541
Unmitigated	0.2928	1.4548	3.9339	0.0128	1.0398	0.0135	1.0533	0.2783	0.0127	0.2910		1,302.4433	1,302.4433	0.0738		1,304.2883

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	89.76	89.76	89.76	306,724	134,018
Apartments Mid Rise	53.34	53.34	53.34	182,271	79,640
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	143.10	143.10	143.10	488,994	213,658

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Apartments Mid Rise	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Enclosed Parking with Elevator	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Other Non-Asphalt Surfaces	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0174	0.1489	0.0634	9.5000e-004		0.0120	0.0120		0.0120	0.0120		190.1319	190.1319	3.6400e-003	3.4900e-003	191.2617
NaturalGas Unmitigated	0.0174	0.1489	0.0634	9.5000e-004		0.0120	0.0120		0.0120	0.0120		190.1319	190.1319	3.6400e-003	3.4900e-003	191.2617

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1060.58	0.0114	0.0977	0.0416	6.2000e-004		7.9000e-003	7.9000e-003		7.9000e-003	7.9000e-003		124.7741	124.7741	2.3900e-003	2.2900e-003	125.5155
Condo/Townhouse High Rise	555.542	5.9900e-003	0.0512	0.0218	3.3000e-004		4.1400e-003	4.1400e-003		4.1400e-003	4.1400e-003		65.3578	65.3578	1.2500e-003	1.2000e-003	65.7462
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0174**	**0.1489**	**0.0634**	**9.5000e-004**		**0.0120**	**0.0120**		**0.0120**	**0.0120**		**190.1319**	**190.1319**	**3.6400e-003**	**3.4900e-003**	**191.2617**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1.06058	0.0114	0.0977	0.0416	6.2000e-004		7.9000e-003	7.9000e-003		7.9000e-003	7.9000e-003		124.7741	124.7741	2.3900e-003	2.2900e-003	125.5155
Condo/Townhouse High Rise	0.555542	5.9900e-003	0.0512	0.0218	3.3000e-004		4.1400e-003	4.1400e-003		4.1400e-003	4.1400e-003		65.3578	65.3578	1.2500e-003	1.2000e-003	65.7462
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0174**	**0.1489**	**0.0634**	**9.5000e-004**		**0.0120**	**0.0120**		**0.0120**	**0.0120**		**190.1319**	**190.1319**	**3.6400e-003**	**3.4900e-003**	**191.2617**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3844	1.0168	5.7053	6.3800e-003		0.1064	0.1064		0.1064	0.1064	0.0000	1,229.2743	1,229.2743	0.0327	0.0224	1,236.7546
Unmitigated	1.3844	1.0168	5.7053	6.3800e-003		0.1064	0.1064		0.1064	0.1064	0.0000	1,229.2743	1,229.2743	0.0327	0.0224	1,236.7546

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0219					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1118	0.9555	0.4066	6.1000e-003		0.0773	0.0773		0.0773	0.0773	0.0000	1,219.7647	1,219.7647	0.0234	0.0224	1,227.0132
Landscaping	0.1614	0.0613	5.2987	2.8000e-004		0.0291	0.0291		0.0291	0.0291		9.5096	9.5096	9.2800e-003		9.7415
Total	**1.3844**	**1.0168**	**5.7053**	**6.3800e-003**		**0.1064**	**0.1064**		**0.1064**	**0.1064**	**0.0000**	**1,229.2743**	**1,229.2743**	**0.0327**	**0.0224**	**1,236.7546**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0219					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1118	0.9555	0.4066	6.1000e-003		0.0773	0.0773		0.0773	0.0773	0.0000	1,219.7647	1,219.7647	0.0234	0.0224	1,227.0132
Landscaping	0.1614	0.0613	5.2987	2.8000e-004		0.0291	0.0291		0.0291	0.0291		9.5096	9.5096	9.2800e-003		9.7415
Total	**1.3844**	**1.0168**	**5.7053**	**6.3800e-003**		**0.1064**	**0.1064**		**0.1064**	**0.1064**	**0.0000**	**1,229.2743**	**1,229.2743**	**0.0327**	**0.0224**	**1,236.7546**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

7427a Firmin Court - Existing Uses - OPERATIONAL ANALYSIS ONLY

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	2.00	Dwelling Unit	0.40	3,600.00	6

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing Uses- OPERATIONAL ANALYSIS ONLY

Land Use - Site has two existing single-family detached residential dwelling units, one is to be demolished and the other relocated. Site is ~0.4 acres.

Vehicle Trips - Per Traffic Technical Memorandum, existing single-family housing have a trip gen rate of 9.44 tips/DU/day.

Energy Use -

Woodstoves -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.65	0.40
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6066	0.0434	1.1827	2.6000e-003		0.1537	0.1537		0.1537	0.1537	18.7338	36.2971	55.0309	0.0562	1.2700e-003	56.8138
Energy	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306
Mobile	0.0397	0.1867	0.5462	1.7800e-003	0.1372	1.7700e-003	0.1390	0.0367	1.6600e-003	0.0384		180.6258	180.6258	9.7900e-003		180.8705
Total	**0.6479**	**0.2439**	**1.7348**	**4.4700e-003**	**0.1372**	**0.1566**	**0.2938**	**0.0367**	**0.1565**	**0.1932**	**18.7338**	**234.6481**	**253.3819**	**0.0663**	**1.5900e-003**	**255.5149**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6066	0.0434	1.1827	2.6000e-003		0.1537	0.1537		0.1537	0.1537	18.7338	36.2971	55.0309	0.0562	1.2700e-003	56.8138
Energy	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306
Mobile	0.0397	0.1867	0.5462	1.7800e-003	0.1372	1.7700e-003	0.1390	0.0367	1.6600e-003	0.0384		180.6258	180.6258	9.7900e-003		180.8705
Total	**0.6479**	**0.2439**	**1.7348**	**4.4700e-003**	**0.1372**	**0.1566**	**0.2938**	**0.0367**	**0.1565**	**0.1932**	**18.7338**	**234.6481**	**253.3819**	**0.0663**	**1.5900e-003**	**255.5149**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0397	0.1867	0.5462	1.7800e-003	0.1372	1.7700e-003	0.1390	0.0367	1.6600e-003	0.0384		180.6258	180.6258	9.7900e-003		180.8705
Unmitigated	0.0397	0.1867	0.5462	1.7800e-003	0.1372	1.7700e-003	0.1390	0.0367	1.6600e-003	0.0384		180.6258	180.6258	9.7900e-003		180.8705

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	18.88	18.88	18.88	64,516	64,516
Total	18.88	18.88	18.88	64,516	64,516

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-...	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306
NaturalGas Unmitigated	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	150.664	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306
Total		**1.6200e-003**	**0.0139**	**5.9100e-003**	**9.0000e-005**		**1.1200e-003**	**1.1200e-003**		**1.1200e-003**	**1.1200e-003**		**17.7252**	**17.7252**	**3.4000e-004**	**3.2000e-004**	**17.8306**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.150664	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306
Total		**1.6200e-003**	**0.0139**	**5.9100e-003**	**9.0000e-005**		**1.1200e-003**	**1.1200e-003**		**1.1200e-003**	**1.1200e-003**		**17.7252**	**17.7252**	**3.4000e-004**	**3.2000e-004**	**17.8306**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6066	0.0434	1.1827	2.6000e-003		0.1537	0.1537		0.1537	0.1537	18.7338	36.2971	55.0309	0.0562	1.2700e-003	56.8138
Unmitigated	0.6066	0.0434	1.1827	2.6000e-003		0.1537	0.1537		0.1537	0.1537	18.7338	36.2971	55.0309	0.0562	1.2700e-003	56.8138

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.1700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0713					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5241	0.0415	1.0171	2.5900e-003		0.1528	0.1528		0.1528	0.1528	18.7338	36.0000	54.7338	0.0559	1.2700e-003	56.5095
Landscaping	5.0400e-003	1.9100e-003	0.1656	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004		0.2971	0.2971	2.9000e-004		0.3044
Total	**0.6066**	**0.0434**	**1.1827**	**2.6000e-003**		**0.1537**	**0.1537**		**0.1537**	**0.1537**	**18.7338**	**36.2971**	**55.0309**	**0.0562**	**1.2700e-003**	**56.8138**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.1700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0713					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5241	0.0415	1.0171	2.5900e-003		0.1528	0.1528		0.1528	0.1528	18.7338	36.0000	54.7338	0.0559	1.2700e-003	56.5095
Landscaping	5.0400e-003	1.9100e-003	0.1656	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004		0.2971	0.2971	2.9000e-004		0.3044
Total	**0.6066**	**0.0434**	**1.1827**	**2.6000e-003**		**0.1537**	**0.1537**		**0.1537**	**0.1537**	**18.7338**	**36.2971**	**55.0309**	**0.0562**	**1.2700e-003**	**56.8138**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

7427a Firmin Court - Existing Uses - OPERATIONAL ANALYSIS ONLY

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	2.00	Dwelling Unit	0.40	3,600.00	6

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing Uses- OPERATIONAL ANALYSIS ONLY

Land Use - Site has two existing single-family detached residential dwelling units, one is to be demolished and the other relocated. Site is ~0.4 acres.

Vehicle Trips - Per Traffic Technical Memorandum, existing single-family housing have a trip gen rate of 9.44 tips/DU/day.

Energy Use -

Woodstoves -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.65	0.40
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6066	0.0434	1.1827	2.6000e-003		0.1537	0.1537		0.1537	0.1537	18.7338	36.2971	55.0309	0.0562	1.2700e-003	56.8138
Energy	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306
Mobile	0.0386	0.1919	0.5190	1.6900e-003	0.1372	1.7800e-003	0.1390	0.0367	1.6700e-003	0.0384		171.8388	171.8388	9.7400e-003		172.0822
Total	**0.6468**	**0.2492**	**1.7076**	**4.3800e-003**	**0.1372**	**0.1566**	**0.2938**	**0.0367**	**0.1565**	**0.1932**	**18.7338**	**225.8611**	**244.5949**	**0.0662**	**1.5900e-003**	**246.7266**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6066	0.0434	1.1827	2.6000e-003		0.1537	0.1537		0.1537	0.1537	18.7338	36.2971	55.0309	0.0562	1.2700e-003	56.8138
Energy	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306
Mobile	0.0386	0.1919	0.5190	1.6900e-003	0.1372	1.7800e-003	0.1390	0.0367	1.6700e-003	0.0384		171.8388	171.8388	9.7400e-003		172.0822
Total	**0.6468**	**0.2492**	**1.7076**	**4.3800e-003**	**0.1372**	**0.1566**	**0.2938**	**0.0367**	**0.1565**	**0.1932**	**18.7338**	**225.8611**	**244.5949**	**0.0662**	**1.5900e-003**	**246.7266**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0386	0.1919	0.5190	1.6900e-003	0.1372	1.7800e-003	0.1390	0.0367	1.6700e-003	0.0384		171.8388	171.8388	9.7400e-003		172.0822
Unmitigated	0.0386	0.1919	0.5190	1.6900e-003	0.1372	1.7800e-003	0.1390	0.0367	1.6700e-003	0.0384		171.8388	171.8388	9.7400e-003		172.0822

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	18.88	18.88	18.88	64,516	64,516
Total	18.88	18.88	18.88	64,516	64,516

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306
NaturalGas Unmitigated	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	150.664	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306
Total		**1.6200e-003**	**0.0139**	**5.9100e-003**	**9.0000e-005**		**1.1200e-003**	**1.1200e-003**		**1.1200e-003**	**1.1200e-003**		**17.7252**	**17.7252**	**3.4000e-004**	**3.2000e-004**	**17.8306**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.150664	1.6200e-003	0.0139	5.9100e-003	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003		17.7252	17.7252	3.4000e-004	3.2000e-004	17.8306
Total		**1.6200e-003**	**0.0139**	**5.9100e-003**	**9.0000e-005**		**1.1200e-003**	**1.1200e-003**		**1.1200e-003**	**1.1200e-003**		**17.7252**	**17.7252**	**3.4000e-004**	**3.2000e-004**	**17.8306**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6066	0.0434	1.1827	2.6000e-003		0.1537	0.1537		0.1537	0.1537	18.7338	36.2971	55.0309	0.0562	1.2700e-003	56.8138
Unmitigated	0.6066	0.0434	1.1827	2.6000e-003		0.1537	0.1537		0.1537	0.1537	18.7338	36.2971	55.0309	0.0562	1.2700e-003	56.8138

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.1700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0713					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5241	0.0415	1.0171	2.5900e-003		0.1528	0.1528		0.1528	0.1528	18.7338	36.0000	54.7338	0.0559	1.2700e-003	56.5095
Landscaping	5.0400e-003	1.9100e-003	0.1656	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004		0.2971	0.2971	2.9000e-004		0.3044
Total	**0.6066**	**0.0434**	**1.1827**	**2.6000e-003**		**0.1537**	**0.1537**		**0.1537**	**0.1537**	**18.7338**	**36.2971**	**55.0309**	**0.0562**	**1.2700e-003**	**56.8138**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.1700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0713					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5241	0.0415	1.0171	2.5900e-003		0.1528	0.1528		0.1528	0.1528	18.7338	36.0000	54.7338	0.0559	1.2700e-003	56.5095
Landscaping	5.0400e-003	1.9100e-003	0.1656	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004		0.2971	0.2971	2.9000e-004		0.3044
Total	**0.6066**	**0.0434**	**1.1827**	**2.6000e-003**		**0.1537**	**0.1537**		**0.1537**	**0.1537**	**18.7338**	**36.2971**	**55.0309**	**0.0562**	**1.2700e-003**	**56.8138**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX C

CalEEMod Model Annual Emissions Printouts

7427a Firmin Court

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	10.00	Space	0.27	11,793.00	0
Other Non-Asphalt Surfaces	0.13	Acre	0.13	5,662.80	0
Apartments Mid Rise	42.00	Dwelling Unit	0.00	33,665.00	120
Condo/Townhouse High Rise	22.00	Dwelling Unit	0.00	17,634.00	63

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

7427a Firmin Court - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - 17,330sf (~0.4 ac) w/ 42 permanent supporitve housing units, 22 affordable family housing units, 10 prkng spcs in lower level, & rmnder lndscpng/setbacks. Total residential floor area is 51,299 sf.

Construction Phase - Construction to begin March 2019 & take ~18 months to complete. Per applicant, ~5 months for demo/grading/excavation & ~13 months for building construction.

Demolition - Demolition of an ~1,332 square foot existing building (other existing building to be relocated).

Grading - 1,344 CY export.

Vehicle Trips - Per Technical Traffic Memo, 1.27 trips/DU for permanent supportive housing & 4.08 trips/DU for affordable family housing.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

Sequestration - Per Site Plans, ~64 new trees to be planted.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - 64 DU/0.4 ac=160 DU/acre. Site is ~0.03 miles northwest of Metro 92 & 10/48 stop Temple/Boylston & 1.01 miles northwest of downtown LA.

Waste Mitigation - AB 347 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	85.00
tblConstructionPhase	NumDays	2.00	24.00
tblConstructionPhase	NumDays	100.00	261.00
tblConstructionPhase	NumDays	5.00	11.00
tblConstructionPhase	NumDays	5.00	11.00
tblFireplaces	NumberGas	18.70	19.80
tblFireplaces	NumberGas	35.70	37.80
tblFireplaces	NumberWood	1.10	0.00
tblFireplaces	NumberWood	2.10	0.00
tblGrading	MaterialExported	0.00	1,344.00
tblLandUse	LandUseSquareFeet	4,000.00	11,793.00
tblLandUse	LandUseSquareFeet	42,000.00	33,665.00

tblLandUse	LandUseSquareFeet	22,000.00	17,634.00
tblLandUse	LotAcreage	0.09	0.27
tblLandUse	LotAcreage	1.11	0.00
tblLandUse	LotAcreage	0.34	0.00
tblSequestration	NumberOfNewTrees	0.00	64.00
tblVehicleTrips	ST_TR	4.31	4.08
tblVehicleTrips	ST_TR	6.39	1.27
tblVehicleTrips	SU_TR	3.43	4.08
tblVehicleTrips	SU_TR	5.86	1.27
tblVehicleTrips	WD_TR	4.18	4.08
tblVehicleTrips	WD_TR	6.65	1.27
tblWoodstoves	NumberCatalytic	1.10	0.00
tblWoodstoves	NumberCatalytic	2.10	0.00
tblWoodstoves	NumberNoncatalytic	1.10	0.00
tblWoodstoves	NumberNoncatalytic	2.10	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1245	1.1104	1.0096	1.8800e-003	0.0523	0.0631	0.1154	0.0165	0.0591	0.0755	0.0000	169.6591	169.6591	0.0312	0.0000	170.4392
2020	0.2561	0.8197	0.8053	1.6100e-003	0.0507	0.0433	0.0939	0.0136	0.0399	0.0535	0.0000	144.2658	144.2658	0.0288	0.0000	144.9847
Maximum	**0.2561**	**1.1104**	**1.0096**	**1.8800e-003**	**0.0523**	**0.0631**	**0.1154**	**0.0165**	**0.0591**	**0.0755**	**0.0000**	**169.6591**	**169.6591**	**0.0312**	**0.0000**	**170.4392**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1245	1.1104	1.0096	1.8800e-003	0.0464	0.0631	0.1095	0.0134	0.0591	0.0724	0.0000	169.6590	169.6590	0.0312	0.0000	170.4391
2020	0.2561	0.8197	0.8053	1.6100e-003	0.0507	0.0433	0.0939	0.0136	0.0399	0.0535	0.0000	144.2657	144.2657	0.0288	0.0000	144.9846
Maximum	**0.2561**	**1.1104**	**1.0096**	**1.8800e-003**	**0.0507**	**0.0631**	**0.1095**	**0.0136**	**0.0591**	**0.0724**	**0.0000**	**169.6590**	**169.6590**	**0.0312**	**0.0000**	**170.4391**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**5.79**	**0.00**	**2.85**	**10.32**	**0.00**	**2.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2019	5-31-2019	0.3177	0.3177
2	6-1-2019	8-31-2019	0.3748	0.3748
3	9-1-2019	11-30-2019	0.4053	0.4053
4	12-1-2019	2-29-2020	0.3799	0.3799
5	3-1-2020	5-31-2020	0.3695	0.3695
6	6-1-2020	8-31-2020	0.4763	0.4763
		Highest	0.4763	0.4763

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2244	0.0196	0.6674	1.1000e-004		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	14.9103	14.9103	1.3200e-003	2.5000e-004	15.0188
Energy	3.1800e-003	0.0272	0.0116	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	214.3092	214.3092	4.9200e-003	1.4700e-003	214.8705
Mobile	0.0521	0.2698	0.7263	2.3700e-003	0.1856	2.4500e-003	0.1880	0.0498	2.2900e-003	0.0521	0.0000	218.0571	218.0571	0.0122	0.0000	218.3608
Waste						0.0000	0.0000		0.0000	0.0000	5.9761	0.0000	5.9761	0.3532	0.0000	14.8054
Water						0.0000	0.0000		0.0000	0.0000	1.3229	46.5074	47.8303	0.1370	3.4400e-003	52.2784
Total	**0.2796**	**0.3166**	**1.4053**	**2.6500e-003**	**0.1856**	**9.2600e-003**	**0.1949**	**0.0498**	**9.1000e-003**	**0.0589**	**7.2990**	**493.7840**	**501.0829**	**0.5085**	**5.1600e-003**	**515.3339**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2244	0.0196	0.6674	1.1000e-004		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	14.9103	14.9103	1.3200e-003	2.5000e-004	15.0188
Energy	3.1800e-003	0.0272	0.0116	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	214.3092	214.3092	4.9200e-003	1.4700e-003	214.8705
Mobile	0.0382	0.1714	0.3869	1.1000e-003	0.0811	1.1600e-003	0.0823	0.0217	1.0900e-003	0.0228	0.0000	101.5203	101.5203	6.3400e-003	0.0000	101.6787
Waste						0.0000	0.0000		0.0000	0.0000	1.4940	0.0000	1.4940	0.0883	0.0000	3.7014
Water						0.0000	0.0000		0.0000	0.0000	1.3229	46.5074	47.8303	0.1370	3.4400e-003	52.2784
Total	**0.2657**	**0.2182**	**1.0659**	**1.3800e-003**	**0.0811**	**7.9700e-003**	**0.0891**	**0.0217**	**7.9000e-003**	**0.0296**	**2.8169**	**377.2472**	**380.0641**	**0.2378**	**5.1600e-003**	**387.5477**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**4.97**	**31.08**	**24.15**	**47.92**	**56.31**	**13.93**	**54.29**	**56.30**	**13.19**	**49.64**	**61.41**	**23.60**	**24.15**	**53.23**	**0.00**	**24.80**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	45.3120
Total	**45.3120**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2019	6/27/2019	5	85	
2	Grading	Grading	6/28/2019	7/31/2019	5	24	
3	Building Construction	Building Construction	8/1/2019	7/30/2020	5	261	
4	Paving	Paving	7/31/2020	8/14/2020	5	11	
5	Architectural Coating	Architectural Coating	8/15/2020	8/31/2020	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.4

Residential Indoor: 103,880; Residential Outdoor: 34,627; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,047 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	168.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	53.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.6000e-004	0.0000	6.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.3657	0.3269	5.1000e-004		0.0228	0.0228		0.0218	0.0218	0.0000	44.7110	44.7110	8.5200e-003	0.0000	44.9241
Total	**0.0405**	**0.3657**	**0.3269**	**5.1000e-004**	**6.6000e-004**	**0.0228**	**0.0235**	**1.0000e-004**	**0.0218**	**0.0219**	**0.0000**	**44.7110**	**44.7110**	**8.5200e-003**	**0.0000**	**44.9241**

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	9.5000e-004	2.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2336	0.2336	2.0000e-005	0.0000	0.2340
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1300e-003	1.7700e-003	0.0193	5.0000e-005	4.6600e-003	4.0000e-005	4.7000e-003	1.2400e-003	4.0000e-005	1.2700e-003	0.0000	4.4768	4.4768	1.5000e-004	0.0000	4.4806
Total	**2.1600e-003**	**2.7200e-003**	**0.0195**	**5.0000e-005**	**4.7100e-003**	**4.0000e-005**	**4.7500e-003**	**1.2500e-003**	**4.0000e-005**	**1.2900e-003**	**0.0000**	**4.7104**	**4.7104**	**1.7000e-004**	**0.0000**	**4.7146**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.6000e-004	0.0000	2.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.3657	0.3269	5.1000e-004		0.0228	0.0228		0.0218	0.0218	0.0000	44.7109	44.7109	8.5200e-003	0.0000	44.9241
Total	**0.0405**	**0.3657**	**0.3269**	**5.1000e-004**	**2.6000e-004**	**0.0228**	**0.0231**	**4.0000e-005**	**0.0218**	**0.0218**	**0.0000**	**44.7109**	**44.7109**	**8.5200e-003**	**0.0000**	**44.9241**

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	9.5000e-004	2.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2336	0.2336	2.0000e-005	0.0000	0.2340
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1300e-003	1.7700e-003	0.0193	5.0000e-005	4.6600e-003	4.0000e-005	4.7000e-003	1.2400e-003	4.0000e-005	1.2700e-003	0.0000	4.4768	4.4768	1.5000e-004	0.0000	4.4806
Total	**2.1600e-003**	**2.7200e-003**	**0.0195**	**5.0000e-005**	**4.7100e-003**	**4.0000e-005**	**4.7500e-003**	**1.2500e-003**	**4.0000e-005**	**1.2900e-003**	**0.0000**	**4.7104**	**4.7104**	**1.7000e-004**	**0.0000**	**4.7146**

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.1100e-003	0.0000	9.1100e-003	4.9800e-003	0.0000	4.9800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1033	0.0923	1.4000e-004		6.4500e-003	6.4500e-003		6.1500e-003	6.1500e-003	0.0000	12.6243	12.6243	2.4100e-003	0.0000	12.6845
Total	**0.0114**	**0.1033**	**0.0923**	**1.4000e-004**	**9.1100e-003**	**6.4500e-003**	**0.0156**	**4.9800e-003**	**6.1500e-003**	**0.0111**	**0.0000**	**12.6243**	**12.6243**	**2.4100e-003**	**0.0000**	**12.6845**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-004	0.0266	5.6500e-003	7.0000e-005	1.4400e-003	1.0000e-004	1.5400e-003	4.0000e-004	9.0000e-005	4.9000e-004	0.0000	6.5410	6.5410	4.6000e-004	0.0000	6.5525
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	5.0000e-004	5.4500e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2640	1.2640	4.0000e-005	0.0000	1.2651
Total	**1.4000e-003**	**0.0271**	**0.0111**	**8.0000e-005**	**2.7500e-003**	**1.1000e-004**	**2.8700e-003**	**7.5000e-004**	**1.0000e-004**	**8.5000e-004**	**0.0000**	**7.8050**	**7.8050**	**5.0000e-004**	**0.0000**	**7.8176**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.5500e-003	0.0000	3.5500e-003	1.9400e-003	0.0000	1.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1033	0.0923	1.4000e-004		6.4500e-003	6.4500e-003		6.1500e-003	6.1500e-003	0.0000	12.6243	12.6243	2.4100e-003	0.0000	12.6844
Total	**0.0114**	**0.1033**	**0.0923**	**1.4000e-004**	**3.5500e-003**	**6.4500e-003**	**0.0100**	**1.9400e-003**	**6.1500e-003**	**8.0900e-003**	**0.0000**	**12.6243**	**12.6243**	**2.4100e-003**	**0.0000**	**12.6844**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-004	0.0266	5.6500e-003	7.0000e-005	1.4400e-003	1.0000e-004	1.5400e-003	4.0000e-004	9.0000e-005	4.9000e-004	0.0000	6.5410	6.5410	4.6000e-004	0.0000	6.5525
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	5.0000e-004	5.4500e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2640	1.2640	4.0000e-005	0.0000	1.2651
Total	**1.4000e-003**	**0.0271**	**0.0111**	**8.0000e-005**	**2.7500e-003**	**1.1000e-004**	**2.8700e-003**	**7.5000e-004**	**1.0000e-004**	**8.5000e-004**	**0.0000**	**7.8050**	**7.8050**	**5.0000e-004**	**0.0000**	**7.8176**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0522	0.5352	0.4111	6.2000e-004		0.0330	0.0330		0.0304	0.0304	0.0000	55.7538	55.7538	0.0176	0.0000	56.1948
Total	**0.0522**	**0.5352**	**0.4111**	**6.2000e-004**		**0.0330**	**0.0330**		**0.0304**	**0.0304**	**0.0000**	**55.7538**	**55.7538**	**0.0176**	**0.0000**	**56.1948**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3100e-003	0.0644	0.0176	1.4000e-004	3.4300e-003	4.0000e-004	3.8400e-003	9.9000e-004	3.9000e-004	1.3800e-003	0.0000	13.6285	13.6285	9.1000e-004	0.0000	13.6513
Worker	0.0145	0.0121	0.1311	3.4000e-004	0.0317	2.8000e-004	0.0319	8.4100e-003	2.6000e-004	8.6600e-003	0.0000	30.4262	30.4262	1.0500e-003	0.0000	30.4524
Total	**0.0168**	**0.0764**	**0.1488**	**4.8000e-004**	**0.0351**	**6.8000e-004**	**0.0358**	**9.4000e-003**	**6.5000e-004**	**0.0100**	**0.0000**	**44.0548**	**44.0548**	**1.9600e-003**	**0.0000**	**44.1036**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0522	0.5352	0.4111	6.2000e-004		0.0330	0.0330		0.0304	0.0304	0.0000	55.7537	55.7537	0.0176	0.0000	56.1947
Total	**0.0522**	**0.5352**	**0.4111**	**6.2000e-004**		**0.0330**	**0.0330**		**0.0304**	**0.0304**	**0.0000**	**55.7537**	**55.7537**	**0.0176**	**0.0000**	**56.1947**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3100e-003	0.0644	0.0176	1.4000e-004	3.4300e-003	4.0000e-004	3.8400e-003	9.9000e-004	3.9000e-004	1.3800e-003	0.0000	13.6285	13.6285	9.1000e-004	0.0000	13.6513
Worker	0.0145	0.0121	0.1311	3.4000e-004	0.0317	2.8000e-004	0.0319	8.4100e-003	2.6000e-004	8.6600e-003	0.0000	30.4262	30.4262	1.0500e-003	0.0000	30.4524
Total	**0.0168**	**0.0764**	**0.1488**	**4.8000e-004**	**0.0351**	**6.8000e-004**	**0.0358**	**9.4000e-003**	**6.5000e-004**	**0.0100**	**0.0000**	**44.0548**	**44.0548**	**1.9600e-003**	**0.0000**	**44.1036**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0655	0.6728	0.5615	8.7000e-004		0.0397	0.0397		0.0365	0.0365	0.0000	76.0460	76.0460	0.0246	0.0000	76.6608
Total	**0.0655**	**0.6728**	**0.5615**	**8.7000e-004**		**0.0397**	**0.0397**		**0.0365**	**0.0365**	**0.0000**	**76.0460**	**76.0460**	**0.0246**	**0.0000**	**76.6608**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7600e-003	0.0824	0.0223	1.9000e-004	4.7900e-003	3.8000e-004	5.1700e-003	1.3800e-003	3.7000e-004	1.7500e-003	0.0000	18.8804	18.8804	1.2000e-003	0.0000	18.9104
Worker	0.0186	0.0150	0.1658	4.6000e-004	0.0441	3.8000e-004	0.0445	0.0117	3.5000e-004	0.0121	0.0000	41.1400	41.1400	1.3000e-003	0.0000	41.1724
Total	**0.0214**	**0.0974**	**0.1881**	**6.5000e-004**	**0.0489**	**7.6000e-004**	**0.0497**	**0.0131**	**7.2000e-004**	**0.0138**	**0.0000**	**60.0204**	**60.0204**	**2.5000e-003**	**0.0000**	**60.0828**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0655	0.6728	0.5615	8.7000e-004		0.0397	0.0397		0.0365	0.0365	0.0000	76.0459	76.0459	0.0246	0.0000	76.6608
Total	**0.0655**	**0.6728**	**0.5615**	**8.7000e-004**		**0.0397**	**0.0397**		**0.0365**	**0.0365**	**0.0000**	**76.0459**	**76.0459**	**0.0246**	**0.0000**	**76.6608**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7600e-003	0.0824	0.0223	1.9000e-004	4.7900e-003	3.8000e-004	5.1700e-003	1.3800e-003	3.7000e-004	1.7500e-003	0.0000	18.8804	18.8804	1.2000e-003	0.0000	18.9104
Worker	0.0186	0.0150	0.1658	4.6000e-004	0.0441	3.8000e-004	0.0445	0.0117	3.5000e-004	0.0121	0.0000	41.1400	41.1400	1.3000e-003	0.0000	41.1724
Total	**0.0214**	**0.0974**	**0.1881**	**6.5000e-004**	**0.0489**	**7.6000e-004**	**0.0497**	**0.0131**	**7.2000e-004**	**0.0138**	**0.0000**	**60.0204**	**60.0204**	**2.5000e-003**	**0.0000**	**60.0828**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2400e-003	0.0398	0.0391	6.0000e-005		2.1700e-003	2.1700e-003		2.0200e-003	2.0200e-003	0.0000	5.1661	5.1661	1.5000e-003	0.0000	5.2037
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.2400e-003**	**0.0398**	**0.0391**	**6.0000e-005**		**2.1700e-003**	**2.1700e-003**		**2.0200e-003**	**2.0200e-003**	**0.0000**	**5.1661**	**5.1661**	**1.5000e-003**	**0.0000**	**5.2037**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.7000e-004	4.0800e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0111	1.0111	3.0000e-005	0.0000	1.0119
Total	**4.6000e-004**	**3.7000e-004**	**4.0800e-003**	**1.0000e-005**	**1.0800e-003**	**1.0000e-005**	**1.0900e-003**	**2.9000e-004**	**1.0000e-005**	**3.0000e-004**	**0.0000**	**1.0111**	**1.0111**	**3.0000e-005**	**0.0000**	**1.0119**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2400e-003	0.0398	0.0391	6.0000e-005		2.1700e-003	2.1700e-003		2.0200e-003	2.0200e-003	0.0000	5.1661	5.1661	1.5000e-003	0.0000	5.2037
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.2400e-003**	**0.0398**	**0.0391**	**6.0000e-005**		**2.1700e-003**	**2.1700e-003**		**2.0200e-003**	**2.0200e-003**	**0.0000**	**5.1661**	**5.1661**	**1.5000e-003**	**0.0000**	**5.2037**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.7000e-004	4.0800e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0111	1.0111	3.0000e-005	0.0000	1.0119
Total	**4.6000e-004**	**3.7000e-004**	**4.0800e-003**	**1.0000e-005**	**1.0800e-003**	**1.0000e-005**	**1.0900e-003**	**2.9000e-004**	**1.0000e-005**	**3.0000e-004**	**0.0000**	**1.0111**	**1.0111**	**3.0000e-005**	**0.0000**	**1.0119**

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1629					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	9.2600e-003	0.0101	2.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	1.4043	1.4043	1.1000e-004	0.0000	1.4070
Total	**0.1643**	**9.2600e-003**	**0.0101**	**2.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**1.4043**	**1.4043**	**1.1000e-004**	**0.0000**	**1.4070**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.3000e-004	2.4900e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	0.6179	0.6179	2.0000e-005	0.0000	0.6184
Total	**2.8000e-004**	**2.3000e-004**	**2.4900e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.7000e-004**	**1.8000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**0.6179**	**0.6179**	**2.0000e-005**	**0.0000**	**0.6184**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1629					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	9.2600e-003	0.0101	2.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	1.4043	1.4043	1.1000e-004	0.0000	1.4070
Total	**0.1643**	**9.2600e-003**	**0.0101**	**2.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**1.4043**	**1.4043**	**1.1000e-004**	**0.0000**	**1.4070**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.3000e-004	2.4900e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	0.6179	0.6179	2.0000e-005	0.0000	0.6184
Total	**2.8000e-004**	**2.3000e-004**	**2.4900e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.7000e-004**	**1.8000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**0.6179**	**0.6179**	**2.0000e-005**	**0.0000**	**0.6184**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0382	0.1714	0.3869	1.1000e-003	0.0811	1.1600e-003	0.0823	0.0217	1.0900e-003	0.0228	0.0000	101.5203	101.5203	6.3400e-003	0.0000	101.6787
Unmitigated	0.0521	0.2698	0.7263	2.3700e-003	0.1856	2.4500e-003	0.1880	0.0498	2.2900e-003	0.0521	0.0000	218.0571	218.0571	0.0122	0.0000	218.3608

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	89.76	89.76	89.76	306,724	134,018
Apartments Mid Rise	53.34	53.34	53.34	182,271	79,640
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	143.10	143.10	143.10	488,994	213,658

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Apartments Mid Rise	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Enclosed Parking with Elevator	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Other Non-Asphalt Surfaces	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	182.8308	182.8308	4.3200e-003	8.9000e-004	183.2050
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	182.8308	182.8308	4.3200e-003	8.9000e-004	183.2050
NaturalGas Mitigated	3.1800e-003	0.0272	0.0116	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.4785	31.4785	6.0000e-004	5.8000e-004	31.6655
NaturalGas Unmitigated	3.1800e-003	0.0272	0.0116	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.4785	31.4785	6.0000e-004	5.8000e-004	31.6655

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	387111	2.0900e-003	0.0178	7.5900e-003	1.1000e-004		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003	0.0000	20.6577	20.6577	4.0000e-004	3.8000e-004	20.7805
Condo/Townhouse High Rise	202773	1.0900e-003	9.3400e-003	3.9800e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	10.8207	10.8207	2.1000e-004	2.0000e-004	10.8850
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.1800e-003**	**0.0272**	**0.0116**	**1.7000e-004**		**2.2000e-003**	**2.2000e-003**		**2.2000e-003**	**2.2000e-003**	**0.0000**	**31.4785**	**31.4785**	**6.1000e-004**	**5.8000e-004**	**31.6655**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	387111	2.0900e-003	0.0178	7.5900e-003	1.1000e-004		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003	0.0000	20.6577	20.6577	4.0000e-004	3.8000e-004	20.7805
Condo/Townhouse High Rise	202773	1.0900e-003	9.3400e-003	3.9800e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	10.8207	10.8207	2.1000e-004	2.0000e-004	10.8850
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.1800e-003**	**0.0272**	**0.0116**	**1.7000e-004**		**2.2000e-003**	**2.2000e-003**		**2.2000e-003**	**2.2000e-003**	**0.0000**	**31.4785**	**31.4785**	**6.1000e-004**	**5.8000e-004**	**31.6655**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	166323	92.6357	2.1900e-003	4.5000e-004	92.8253
Condo/Townhouse High Rise	92834.3	51.7051	1.2200e-003	2.5000e-004	51.8109
Enclosed Parking with Elevator	69107	38.4899	9.1000e-004	1.9000e-004	38.5687
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**182.8308**	**4.3200e-003**	**8.9000e-004**	**183.2049**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	166323	92.6357	2.1900e-003	4.5000e-004	92.8253
Condo/Townhouse High Rise	92834.3	51.7051	1.2200e-003	2.5000e-004	51.8109
Enclosed Parking with Elevator	69107	38.4899	9.1000e-004	1.9000e-004	38.5687
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**182.8308**	**4.3200e-003**	**8.9000e-004**	**183.2049**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2244	0.0196	0.6674	1.1000e-004		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	14.9103	14.9103	1.3200e-003	2.5000e-004	15.0188
Unmitigated	0.2244	0.0196	0.6674	1.1000e-004		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	14.9103	14.9103	1.3200e-003	2.5000e-004	15.0188

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0163					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1865					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.4000e-003	0.0119	5.0800e-003	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	13.8319	13.8319	2.7000e-004	2.5000e-004	13.9141
Landscaping	0.0202	7.6600e-003	0.6623	3.0000e-005		3.6400e-003	3.6400e-003		3.6400e-003	3.6400e-003	0.0000	1.0784	1.0784	1.0500e-003	0.0000	1.1047
Total	**0.2244**	**0.0196**	**0.6674**	**1.1000e-004**		**4.6100e-003**	**4.6100e-003**		**4.6100e-003**	**4.6100e-003**	**0.0000**	**14.9103**	**14.9103**	**1.3200e-003**	**2.5000e-004**	**15.0188**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0163					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1865					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.4000e-003	0.0119	5.0800e-003	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	13.8319	13.8319	2.7000e-004	2.5000e-004	13.9141
Landscaping	0.0202	7.6600e-003	0.6623	3.0000e-005		3.6400e-003	3.6400e-003		3.6400e-003	3.6400e-003	0.0000	1.0784	1.0784	1.0500e-003	0.0000	1.1047
Total	**0.2244**	**0.0196**	**0.6674**	**1.1000e-004**		**4.6100e-003**	**4.6100e-003**		**4.6100e-003**	**4.6100e-003**	**0.0000**	**14.9103**	**14.9103**	**1.3200e-003**	**2.5000e-004**	**15.0188**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	47.8303	0.1370	3.4400e-003	52.2784
Unmitigated	47.8303	0.1370	3.4400e-003	52.2784

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	2.73647 / 1.72517	31.3886	0.0899	2.2500e-003	34.3077
Condo/Townhouse High Rise	1.43339 / 0.903658	16.4417	0.0471	1.1800e-003	17.9707
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**47.8303**	**0.1370**	**3.4300e-003**	**52.2784**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	2.73647 / 1.72517	31.3886	0.0899	2.2500e-003	34.3077
Condo/Townhouse High Rise	1.43339 / 0.903658	16.4417	0.0471	1.1800e-003	17.9707
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**47.8303**	**0.1370**	**3.4300e-003**	**52.2784**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.4940	0.0883	0.0000	3.7014
Unmitigated	5.9761	0.3532	0.0000	14.8054

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	19.32	3.9218	0.2318	0.0000	9.7161
Condo/Townhouse High Rise	10.12	2.0543	0.1214	0.0000	5.0894
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**5.9761**	**0.3532**	**0.0000**	**14.8054**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	4.83	0.9805	0.0579	0.0000	2.4290
Condo/Townhouse High Rise	2.53	0.5136	0.0304	0.0000	1.2723
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**1.4940**	**0.0883**	**0.0000**	**3.7014**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	45.3120	0.0000	0.0000	45.3120

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	64	45.3120	0.0000	0.0000	45.3120
Total		**45.3120**	**0.0000**	**0.0000**	**45.3120**

7427a Firmin Court - Existing Uses - OPERATIONAL ANALYSIS ONLY

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	2.00	Dwelling Unit	0.40	3,600.00	6

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing Uses- OPERATIONAL ANALYSIS ONLY

Land Use - Site has two existing single-family detached residential dwelling units, one is to be demolished and the other relocated. Site is ~0.4 acres.

Vehicle Trips - Per Traffic Technical Memorandum, existing single-family housing have a trip gen rate of 9.44 tips/DU/day.

Energy Use -

Woodstoves -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	0.65	0.40
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	9.52	9.44

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0213	7.6000e-004	0.0334	3.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.2124	0.4419	0.6544	6.7000e-004	1.0000e-005	0.6753
Energy	3.0000e-004	2.5300e-003	1.0800e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	11.8189	11.8189	2.7000e-004	1.0000e-004	11.8546
Mobile	6.8700e-003	0.0356	0.0958	3.1000e-004	0.0245	3.2000e-004	0.0248	6.5600e-003	3.0000e-004	6.8700e-003	0.0000	28.7695	28.7695	1.6000e-003	0.0000	28.8096
Waste						0.0000	0.0000		0.0000	0.0000	0.4994	0.0000	0.4994	0.0295	0.0000	1.2371
Water						0.0000	0.0000		0.0000	0.0000	0.0413	1.4534	1.4947	4.2800e-003	1.1000e-004	1.6337
Total	**0.0285**	**0.0389**	**0.1303**	**3.6000e-004**	**0.0245**	**2.5400e-003**	**0.0270**	**6.5600e-003**	**2.5200e-003**	**9.0900e-003**	**0.7531**	**42.4837**	**43.2369**	**0.0363**	**2.2000e-004**	**44.2103**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0213	7.6000e-004	0.0334	3.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.2124	0.4419	0.6544	6.7000e-004	1.0000e-005	0.6753
Energy	3.0000e-004	2.5300e-003	1.0800e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	11.8189	11.8189	2.7000e-004	1.0000e-004	11.8546
Mobile	6.8700e-003	0.0356	0.0958	3.1000e-004	0.0245	3.2000e-004	0.0248	6.5600e-003	3.0000e-004	6.8700e-003	0.0000	28.7695	28.7695	1.6000e-003	0.0000	28.8096
Waste						0.0000	0.0000		0.0000	0.0000	0.4994	0.0000	0.4994	0.0295	0.0000	1.2371
Water						0.0000	0.0000		0.0000	0.0000	0.0413	1.4534	1.4947	4.2800e-003	1.1000e-004	1.6337
Total	**0.0285**	**0.0389**	**0.1303**	**3.6000e-004**	**0.0245**	**2.5400e-003**	**0.0270**	**6.5600e-003**	**2.5200e-003**	**9.0900e-003**	**0.7531**	**42.4837**	**43.2369**	**0.0363**	**2.2000e-004**	**44.2103**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e

Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.8700e-003	0.0356	0.0958	3.1000e-004	0.0245	3.2000e-004	0.0248	6.5600e-003	3.0000e-004	6.8700e-003	0.0000	28.7695	28.7695	1.6000e-003	0.0000	28.8096
Unmitigated	6.8700e-003	0.0356	0.0958	3.1000e-004	0.0245	3.2000e-004	0.0248	6.5600e-003	3.0000e-004	6.8700e-003	0.0000	28.7695	28.7695	1.6000e-003	0.0000	28.8096

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	18.88	18.88	18.88	64,516	64,516
Total	18.88	18.88	18.88	64,516	64,516

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8.8843	8.8843	2.1000e-004	4.0000e-005	8.9025
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8.8843	8.8843	2.1000e-004	4.0000e-005	8.9025
NaturalGas Mitigated	3.0000e-004	2.5300e-003	1.0800e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9346	2.9346	6.0000e-005	5.0000e-005	2.9521
NaturalGas Unmitigated	3.0000e-004	2.5300e-003	1.0800e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9346	2.9346	6.0000e-005	5.0000e-005	2.9521

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	54992.5	3.0000e-004	2.5300e-003	1.0800e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9346	2.9346	6.0000e-005	5.0000e-005	2.9521
Total		**3.0000e-004**	**2.5300e-003**	**1.0800e-003**	**2.0000e-005**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**2.9346**	**2.9346**	**6.0000e-005**	**5.0000e-005**	**2.9521**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	54992.5	3.0000e-004	2.5300e-003	1.0800e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9346	2.9346	6.0000e-005	5.0000e-005	2.9521
Total		**3.0000e-004**	**2.5300e-003**	**1.0800e-003**	**2.0000e-005**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**2.9346**	**2.9346**	**6.0000e-005**	**5.0000e-005**	**2.9521**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	15951.4	8.8843	2.1000e-004	4.0000e-005	8.9025
Total		**8.8843**	**2.1000e-004**	**4.0000e-005**	**8.9025**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	15951.4	8.8843	2.1000e-004	4.0000e-005	8.9025
Total		**8.8843**	**2.1000e-004**	**4.0000e-005**	**8.9025**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Mitigated	0.0213	7.6000e-004	0.0334	3.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.2124	0.4419	0.6544	6.7000e-004	1.0000e-005	0.6753
Unmitigated	0.0213	7.6000e-004	0.0334	3.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.2124	0.4419	0.6544	6.7000e-004	1.0000e-005	0.6753

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.5500e-003	5.2000e-004	0.0127	3.0000e-005		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.2124	0.4082	0.6207	6.3000e-004	1.0000e-005	0.6408
Landscaping	6.3000e-004	2.4000e-004	0.0207	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0337	0.0337	3.0000e-005	0.0000	0.0345
Total	**0.0213**	**7.6000e-004**	**0.0334**	**3.0000e-005**		**2.0200e-003**	**2.0200e-003**		**2.0200e-003**	**2.0200e-003**	**0.2124**	**0.4419**	**0.6544**	**6.6000e-004**	**1.0000e-005**	**0.6753**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Hearth	6.5500e-003	5.2000e-004	0.0127	3.0000e-005		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.2124	0.4082	0.6207	6.3000e-004	1.0000e-005	0.6408
Landscaping	6.3000e-004	2.4000e-004	0.0207	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0337	0.0337	3.0000e-005	0.0000	0.0345
Total	**0.0213**	**7.6000e-004**	**0.0334**	**3.0000e-005**		**2.0200e-003**	**2.0200e-003**		**2.0200e-003**	**2.0200e-003**	**0.2124**	**0.4419**	**0.6544**	**6.6000e-004**	**1.0000e-005**	**0.6753**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.4947	4.2800e-003	1.1000e-004	1.6337
Unmitigated	1.4947	4.2800e-003	1.1000e-004	1.6337

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.130308 / 0.0821507	1.4947	4.2800e-003	1.1000e-004	1.6337
Total		**1.4947**	**4.2800e-003**	**1.1000e-004**	**1.6337**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e

Land Use	Mgal	MT/yr			
Single Family Housing	0.130308 / 0.0821507	1.4947	4.2800e-003	1.1000e-004	1.6337
Total		**1.4947**	**4.2800e-003**	**1.1000e-004**	**1.6337**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.4994	0.0295	0.0000	1.2371
Unmitigated	0.4994	0.0295	0.0000	1.2371

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Total		**0.4994**	**0.0295**	**0.0000**	**1.2371**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Total		**0.4994**	**0.0295**	**0.0000**	**1.2371**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX D

AERMOD Model Printouts

Fermin Court

Estimation of DPM Emissions Along 101 Freeway

Cal Trans Vehicle Traffic - 2016

Segment	Back AADT	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks	2 axle	2 axle % Trucks	3 axle	3 axle % Trucks	4+ axle	4+ Axle % Trucks
Los Angeles, Jct. Rte.110	217000	7574	209426	96.5%	3.5%	4707	62.1%	690	9.1%	2177	28.7%

Diesel Vehicle Distribution

Vehicle Mix
2 axle trucks = LHDT1 and LHDT2
3 axle trucks = MHDT
4+ axle trucks = HHDT

Adjusted Fleet Mix

	SCAB CalEEMod Fleet Mix	Adjusted Fleet Mix	Daily Trips
LDA	55.23	59.6%	124803
LDT1	4.429	4.8%	10008
LDT2	21.11	22.8%	47702
MDV	11.91	12.9%	26913
Total	92.679	100.0%	209426
LHD1	1.75	75.1%	3537
LHD2	0.579	24.9%	1170
Total	2.329	100.0%	4707
MHDT			690
HHDT			2177
Total - All Vehicles			217000

Diesel Vehicle Distribution (from URBEMIS: 2020 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.4%	140
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	17.6%	622
LHDT2	40.0%	468
MHDT	80.0%	552
HHDT	100.0%	2177

Vehicle Speed/1-year Average DPM Emission Factor (2020) from EMFAC2014 for South Coast AB

	Speed (mph)	Emission Factor (g/mi)
LDA	70	0.009106965
LDT1	70	0.114105346
LDT2	70	0.004151167
MDV	60	0.005241357
LHDT1	60	0.024583517
LHDT2	60	0.018216909
MHDT	55	0.005851
HHDT	55	0.015542

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment 397.8 meters or
0.247 miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)	EB	WB	
LDA	0.0	0.00E+00			
LDT1	4.0	4.57E-05			
LDT2	0.0	0.00E+00			
MDV	0.0	0.00E+00			
LHDT1	3.8	4.38E-05			
LHDT2	2.1	2.44E-05			
MHDT	0.8	9.24E-06			
HHDT	8.4	9.68E-05			
Total	19.0	2.20E-04		**1.10E-04**	**1.10E-04**

Fermin Court

Estimation of DPM Emissions Along 101 Freeway

Cal Trans Vehicle Traffic - 2016

Segment	Back AADT	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks	2 axle	2 axle % Trucks	3 axle	3 axle % Trucks	4+ axle	4+ Axle % Trucks
Los Angeles, Jct. Rte.110	217000	7574	209426	96.5%	3.5%	4707	62.1%	690	9.1%	2177	28.7%

Diesel Vehicle Distribution

Vehicle Mix
2 axle trucks = LHDT1 and LHDT2
3 axle trucks = MHDT
4+ axle trucks = HHDT

Adjusted Fleet Mix

	SCAB CalEEMod Fleet Mix	Adjusted Fleet Mix	Daily Trips
LDA	55.23	59.6%	124803
LDT1	4.429	4.8%	10008
LDT2	21.11	22.8%	47702
MDV	11.91	12.9%	26913
Total	92.679	100.0%	209426
LHD1	1.75	75.1%	3537
LHD2	0.579	24.9%	1170
Total	2.329	100.0%	4707
MHDT			690
HHDT			2177
Total - All Vehicles			217000

Diesel Vehicle Distribution (from URBEMIS: 2020 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.4%	140
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	17.6%	622
LHDT2	40.0%	468
MHDT	80.0%	552
HHDT	100.0%	2177

Vehicle Speed/2-year Average DPM Emission Factor (2021 to 2022) from EMFAC2014 for South Coast AB

	Speed (mph)	Emission Factor (g/mi)
LDA	70	0.008863216
LDT1	70	0.106872803
LDT2	70	0.00358187
MDV	60	0.004462079
LHDT1	60	0.021302309
LHDT2	60	0.016026037
MHDT	55	0.005494
HHDT	55	0.013135

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment 397.8 meters or
0.247 miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)	EB	WB	
LDA	0.0	0.00E+00			
LDT1	3.7	4.28E-05			
LDT2	0.0	0.00E+00			
MDV	0.0	0.00E+00			
LHDT1	3.3	3.79E-05			
LHDT2	1.9	2.15E-05			
MHDT	0.7	8.67E-06			
HHDT	7.1	8.18E-05			
Total	16.6	1.93E-04		**9.63E-05**	**9.63E-05**

Fermin Court

Estimation of DPM Emissions Along 101 Freeway

Cal Trans Vehicle Traffic - 2016

Segment	Back AADT	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks	2 axle	2 axle % Trucks	3 axle	3 axle % Trucks	4+ axle	4+ Axle % Trucks
Los Angeles, Jct. Rte.110	217000	7574	209426	96.5%	3.5%	4707	62.1%	690	9.1%	2177	28.7%

Diesel Vehicle Distribution

Vehicle Mix
2 axle trucks = LHDT1 and LHDT2
3 axle trucks = MHDT
4+ axle trucks = HHDT

Adjusted Fleet Mix

	SCAB CalEEMod Fleet Mix	Adjusted Fleet Mix	Daily Trips
LDA	55.23	59.6%	124803
LDT1	4.429	4.8%	10008
LDT2	21.11	22.8%	47702
MDV	11.91	12.9%	26913
Total	92.679	100.0%	209426
LHD1	1.75	75.1%	3537
LHD2	0.579	24.9%	1170
Total	2.329	100.0%	4707
MHDT			690
HHDT			2177
Total - All Vehicles			217000

Diesel Vehicle Distribution (from URBEMIS: 2020 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.4%	140
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	17.6%	622
LHDT2	40.0%	468
MHDT	80.0%	552
HHDT	100.0%	2177

Vehicle Speed/14-year Average DPM Emission Factor (2023 to 2036) from EMFAC2014 for South Coast AB

	Speed (mph)	Emission Factor (g/mi)
LDA	70	0.002575908
LDT1	70	0.028968107
LDT2	70	0.003281845
MDV	60	0.002090032
LHDT1	60	0.014220582
LHDT2	60	0.009734311
MHDT	55	0.002606
HHDT	55	0.004825

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment 397.8 meters or
0.247 miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)	EB	WB	
LDA	0.0	0.00E+00			
LDT1	1.0	1.16E-05			
LDT2	0.0	0.00E+00			
MDV	0.0	0.00E+00			
LHDT1	2.2	2.53E-05			
LHDT2	1.1	1.30E-05			
MHDT	0.4	4.11E-06			
HHDT	2.6	3.00E-05			
Total	7.3	8.41E-05	**4.21E-05**		**4.21E-05**

Fermin Court

Estimation of DPM Emissions Along 101 Freeway

Cal Trans Vehicle Traffic - 2016

Segment	Back AADT	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks	2 axle	2 axle % Trucks	3 axle	3 axle % Trucks	4+ axle	4+ Axle % Trucks
Los Angeles, Jct. Rte.110	217000	7574	209426	96.5%	3.5%	4707	62.1%	690	9.1%	2177	28.7%

Diesel Vehicle Distribution

Vehicle Mix
2 axle trucks = LHDT1 and LHDT2
3 axle trucks = MHDT
4+ axle trucks = HHDT

Adjusted Fleet Mix

	SCAB CalEEMod Fleet Mix	Adjusted Fleet Mix	Daily Trips
LDA	55.23	59.6%	124803
LDT1	4.429	4.8%	10008
LDT2	21.11	22.8%	47702
MDV	11.91	12.9%	26913
Total	92.679	100.0%	209426
LHD1	1.75	75.1%	3537
LHD2	0.579	24.9%	1170
Total	2.329	100.0%	4707
MHDT			690
HHDT			2177
Total - All Vehicles			217000

Diesel Vehicle Distribution (from URBEMIS: 2020 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.4%	140
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	17.6%	622
LHDT2	40.0%	468
MHDT	80.0%	552
HHDT	100.0%	2177

Vehicle Speed/14-year Average DPM Emission Factor (2037 to 2050) from EMFAC2014 for South Coast AB

	Speed (mph)	Emission Factor (g/mi)
LDA	70	0.000599258
LDT1	70	0.003441537
LDT2	70	0.003153722
MDV	60	0.000727772
LHDT1	60	0.005576302
LHDT2	60	0.005360496
MHDT	55	0.002430
HHDT	55	0.004535

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment 397.8 meters or
0.247 miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)	EB	WB	
LDA	0.0	0.00E+00			
LDT1	0.1	1.38E-06			
LDT2	0.0	0.00E+00			
MDV	0.0	0.00E+00			
LHDT1	0.9	9.93E-06			
LHDT2	0.6	7.18E-06			
MHDT	0.3	3.84E-06			
HHDT	2.4	2.82E-05			
Total	4.4	5.06E-05		**2.53E-05**	**2.53E-05**

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** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.0
** Lakes Environmental Software Inc.
** Date: 7/27/2018
** File: C:\Lakes\AERMOD View\7427 Firmin Court\7427 Firmin Court.ADI
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** AERMOD Control Pathway
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   AVERTIME ANNUAL
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID DPM
   RUNORNOT RUN
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CO FINISHED
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** AERMOD Source Pathway
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SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC WB 101 FWY
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.00011
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
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** 384561.659, 3770036.801, 119.57, 0.00, 1.70
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LOCATION L0000005     VOLUME   384274.047 3770287.193 127.26
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LOCATION L0000009     VOLUME   384285.081 3770277.586 126.89
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LOCATION L0000011     VOLUME   384290.598 3770272.783 126.45
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LOCATION L0000036     VOLUME   384359.565 3770212.742 127.28
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LOCATION L0000039     VOLUME   384367.841 3770205.537 126.84
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** DESCRSRC EB 101 FWY
** PREFIX
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** Configuration = Adjacent
** Emission Rate = 0.00011
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
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** Source Parameters **
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   SRCPARAM L0000004     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000005     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000006     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000007     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000008     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000009     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000010     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000011     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000012     0.000001009      0.00      1.70      0.85
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   SRCPARAM L0000014     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000015     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000016     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000017     0.000001009      0.00      1.70      0.85
   SRCPARAM L0000018     0.000001009      0.00      1.70      0.85
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   SRCPARAM L0000081     0.000001009      0.00      1.70      0.85
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   SRCPARAM L0000108     0.000001009      0.00      1.70      0.85
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** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000571     0.000001009      0.00      1.70      0.85
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   SRCPARAM L0000579     0.000001009      0.00      1.70      0.85
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** ------------------------------------------------------------------
   URBANSRC ALL
```

```
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "7427 Firmin Court.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\CELA_V9_ADJU\CELA_v9.SFC"
   PROFFILE "E:\New MET data\CELA_V9_ADJU\CELA_v9.PFL"
   SURFDATA 93134 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 87.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "7427 Firmin Court.AD\AN00GALL.PLT" 31
   SUMMFILE "7427 Firmin Court.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***
```

```
   ********   WARNING MESSAGES   ********
ME W186     535       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     535       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

**********************************
*** SETUP Finishes Successfully ***
**********************************


*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court\7427 Firmin Court.isc         ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations opening year 2020                               ***        08:23:40
                                                                                                                  PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                         ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for   218 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates ANNUAL Averages Only

**This Run Includes:    218 Source(s);       1 Source Group(s); and     445 Receptor(s)

              with:      0 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
```

```
               and:    218 VOLUME source(s)
               and:      0 AREA type source(s)
               and:      0 LINE source(s)
               and:      0 OPENPIT source(s)
               and:      0 BUOYANT LINE source(s) with      0 line(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of ANNUAL Averages by Receptor
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    87.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                              ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   7427 Firmin Court.err
**File for Summary of Results:   7427 Firmin Court.sum

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court\7427 Firmin Court.isc         ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations opening year 2020                               ***        08:23:40
                                                                                                                  PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.               (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0000001        0   0.10090E-05  384263.0 3770296.8   127.1     0.00     1.70     0.85     YES
L0000002        0   0.10090E-05  384265.8 3770294.4   127.2     0.00     1.70     0.85     YES
L0000003        0   0.10090E-05  384268.5 3770292.0   127.3     0.00     1.70     0.85     YES
L0000004        0   0.10090E-05  384271.3 3770289.6   127.3     0.00     1.70     0.85     YES
L0000005        0   0.10090E-05  384274.0 3770287.2   127.3     0.00     1.70     0.85     YES
L0000006        0   0.10090E-05  384276.8 3770284.8   127.2     0.00     1.70     0.85     YES
```

L0000007	0	0.10090E-05	384279.6	3770282.4	127.1	0.00	1.70	0.85	YES
L0000008	0	0.10090E-05	384282.3	3770280.0	127.0	0.00	1.70	0.85	YES
L0000009	0	0.10090E-05	384285.1	3770277.6	126.9	0.00	1.70	0.85	YES
L0000010	0	0.10090E-05	384287.8	3770275.2	126.7	0.00	1.70	0.85	YES
L0000011	0	0.10090E-05	384290.6	3770272.8	126.5	0.00	1.70	0.85	YES
L0000012	0	0.10090E-05	384293.4	3770270.4	126.6	0.00	1.70	0.85	YES
L0000013	0	0.10090E-05	384296.1	3770268.0	126.7	0.00	1.70	0.85	YES
L0000014	0	0.10090E-05	384298.9	3770265.6	126.7	0.00	1.70	0.85	YES
L0000015	0	0.10090E-05	384301.6	3770263.2	126.7	0.00	1.70	0.85	YES
L0000016	0	0.10090E-05	384304.4	3770260.8	126.7	0.00	1.70	0.85	YES
L0000017	0	0.10090E-05	384307.1	3770258.4	126.7	0.00	1.70	0.85	YES
L0000018	0	0.10090E-05	384309.9	3770256.0	127.0	0.00	1.70	0.85	YES
L0000019	0	0.10090E-05	384312.7	3770253.6	127.2	0.00	1.70	0.85	YES
L0000020	0	0.10090E-05	384315.4	3770251.2	127.3	0.00	1.70	0.85	YES
L0000021	0	0.10090E-05	384318.2	3770248.8	127.3	0.00	1.70	0.85	YES
L0000022	0	0.10090E-05	384320.9	3770246.4	127.3	0.00	1.70	0.85	YES
L0000023	0	0.10090E-05	384323.7	3770244.0	127.1	0.00	1.70	0.85	YES
L0000024	0	0.10090E-05	384326.5	3770241.6	126.9	0.00	1.70	0.85	YES
L0000025	0	0.10090E-05	384329.2	3770239.2	126.9	0.00	1.70	0.85	YES
L0000026	0	0.10090E-05	384332.0	3770236.8	127.0	0.00	1.70	0.85	YES
L0000027	0	0.10090E-05	384334.7	3770234.4	127.3	0.00	1.70	0.85	YES
L0000028	0	0.10090E-05	384337.5	3770232.0	127.5	0.00	1.70	0.85	YES
L0000029	0	0.10090E-05	384340.3	3770229.6	127.7	0.00	1.70	0.85	YES
L0000030	0	0.10090E-05	384343.0	3770227.2	127.9	0.00	1.70	0.85	YES
L0000031	0	0.10090E-05	384345.8	3770224.8	127.9	0.00	1.70	0.85	YES
L0000032	0	0.10090E-05	384348.5	3770222.3	127.9	0.00	1.70	0.85	YES
L0000033	0	0.10090E-05	384351.3	3770219.9	127.9	0.00	1.70	0.85	YES
L0000034	0	0.10090E-05	384354.0	3770217.5	127.8	0.00	1.70	0.85	YES
L0000035	0	0.10090E-05	384356.8	3770215.1	127.6	0.00	1.70	0.85	YES
L0000036	0	0.10090E-05	384359.6	3770212.7	127.3	0.00	1.70	0.85	YES
L0000037	0	0.10090E-05	384362.3	3770210.3	126.9	0.00	1.70	0.85	YES
L0000038	0	0.10090E-05	384365.1	3770207.9	126.9	0.00	1.70	0.85	YES
L0000039	0	0.10090E-05	384367.8	3770205.5	126.8	0.00	1.70	0.85	YES
L0000040	0	0.10090E-05	384370.6	3770203.1	126.8	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000041	0	0.10090E-05	384373.4	3770200.7	126.8	0.00	1.70	0.85	YES	
L0000042	0	0.10090E-05	384376.1	3770198.3	126.7	0.00	1.70	0.85	YES	
L0000043	0	0.10090E-05	384378.9	3770195.9	126.7	0.00	1.70	0.85	YES	

L0000044	0	0.10090E-05	384381.6	3770193.5	126.7	0.00	1.70	0.85	YES
L0000045	0	0.10090E-05	384384.4	3770191.1	126.8	0.00	1.70	0.85	YES
L0000046	0	0.10090E-05	384387.2	3770188.7	126.9	0.00	1.70	0.85	YES
L0000047	0	0.10090E-05	384389.9	3770186.3	127.0	0.00	1.70	0.85	YES
L0000048	0	0.10090E-05	384392.7	3770183.9	126.9	0.00	1.70	0.85	YES
L0000049	0	0.10090E-05	384395.4	3770181.5	126.7	0.00	1.70	0.85	YES
L0000050	0	0.10090E-05	384398.2	3770179.1	126.5	0.00	1.70	0.85	YES
L0000051	0	0.10090E-05	384400.9	3770176.7	126.4	0.00	1.70	0.85	YES
L0000052	0	0.10090E-05	384403.7	3770174.3	126.4	0.00	1.70	0.85	YES
L0000053	0	0.10090E-05	384406.5	3770171.9	126.3	0.00	1.70	0.85	YES
L0000054	0	0.10090E-05	384409.2	3770169.5	126.5	0.00	1.70	0.85	YES
L0000055	0	0.10090E-05	384412.0	3770167.1	126.6	0.00	1.70	0.85	YES
L0000056	0	0.10090E-05	384414.7	3770164.7	126.8	0.00	1.70	0.85	YES
L0000057	0	0.10090E-05	384417.5	3770162.3	126.8	0.00	1.70	0.85	YES
L0000058	0	0.10090E-05	384420.3	3770159.9	126.8	0.00	1.70	0.85	YES
L0000059	0	0.10090E-05	384423.0	3770157.5	126.7	0.00	1.70	0.85	YES
L0000060	0	0.10090E-05	384425.8	3770155.1	126.5	0.00	1.70	0.85	YES
L0000061	0	0.10090E-05	384428.5	3770152.7	126.3	0.00	1.70	0.85	YES
L0000062	0	0.10090E-05	384431.3	3770150.3	126.0	0.00	1.70	0.85	YES
L0000063	0	0.10090E-05	384434.0	3770147.9	125.7	0.00	1.70	0.85	YES
L0000064	0	0.10090E-05	384436.8	3770145.5	125.7	0.00	1.70	0.85	YES
L0000065	0	0.10090E-05	384439.6	3770143.1	125.6	0.00	1.70	0.85	YES
L0000066	0	0.10090E-05	384442.3	3770140.7	125.6	0.00	1.70	0.85	YES
L0000067	0	0.10090E-05	384445.1	3770138.3	125.5	0.00	1.70	0.85	YES
L0000068	0	0.10090E-05	384447.8	3770135.9	125.5	0.00	1.70	0.85	YES
L0000069	0	0.10090E-05	384450.6	3770133.5	125.4	0.00	1.70	0.85	YES
L0000070	0	0.10090E-05	384453.4	3770131.1	125.3	0.00	1.70	0.85	YES
L0000071	0	0.10090E-05	384456.1	3770128.7	125.1	0.00	1.70	0.85	YES
L0000072	0	0.10090E-05	384458.9	3770126.3	125.0	0.00	1.70	0.85	YES
L0000073	0	0.10090E-05	384461.6	3770123.9	124.9	0.00	1.70	0.85	YES
L0000074	0	0.10090E-05	384464.4	3770121.5	124.7	0.00	1.70	0.85	YES
L0000075	0	0.10090E-05	384467.2	3770119.1	124.5	0.00	1.70	0.85	YES
L0000076	0	0.10090E-05	384469.9	3770116.7	124.3	0.00	1.70	0.85	YES
L0000077	0	0.10090E-05	384472.7	3770114.3	124.1	0.00	1.70	0.85	YES
L0000078	0	0.10090E-05	384475.4	3770111.9	124.0	0.00	1.70	0.85	YES
L0000079	0	0.10090E-05	384478.2	3770109.5	123.9	0.00	1.70	0.85	YES
L0000080	0	0.10090E-05	384480.9	3770107.1	123.8	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0000081	0	0.10090E-05	384483.7	3770104.7	123.6	0.00	1.70	0.85	YES
L0000082	0	0.10090E-05	384486.5	3770102.3	123.5	0.00	1.70	0.85	YES
L0000083	0	0.10090E-05	384489.2	3770099.9	123.3	0.00	1.70	0.85	YES
L0000084	0	0.10090E-05	384492.0	3770097.5	123.2	0.00	1.70	0.85	YES
L0000085	0	0.10090E-05	384494.7	3770095.1	123.0	0.00	1.70	0.85	YES
L0000086	0	0.10090E-05	384497.5	3770092.7	122.9	0.00	1.70	0.85	YES
L0000087	0	0.10090E-05	384500.3	3770090.3	122.8	0.00	1.70	0.85	YES
L0000088	0	0.10090E-05	384503.0	3770087.9	122.6	0.00	1.70	0.85	YES
L0000089	0	0.10090E-05	384505.8	3770085.5	122.5	0.00	1.70	0.85	YES
L0000090	0	0.10090E-05	384508.5	3770083.1	122.4	0.00	1.70	0.85	YES
L0000091	0	0.10090E-05	384511.3	3770080.7	122.2	0.00	1.70	0.85	YES
L0000092	0	0.10090E-05	384514.0	3770078.2	122.1	0.00	1.70	0.85	YES
L0000093	0	0.10090E-05	384516.8	3770075.8	122.0	0.00	1.70	0.85	YES
L0000094	0	0.10090E-05	384519.6	3770073.4	121.8	0.00	1.70	0.85	YES
L0000095	0	0.10090E-05	384522.3	3770071.0	121.7	0.00	1.70	0.85	YES
L0000096	0	0.10090E-05	384525.1	3770068.6	121.5	0.00	1.70	0.85	YES
L0000097	0	0.10090E-05	384527.8	3770066.2	121.4	0.00	1.70	0.85	YES
L0000098	0	0.10090E-05	384530.6	3770063.8	121.2	0.00	1.70	0.85	YES
L0000099	0	0.10090E-05	384533.4	3770061.4	121.1	0.00	1.70	0.85	YES
L0000100	0	0.10090E-05	384536.1	3770059.0	120.9	0.00	1.70	0.85	YES
L0000101	0	0.10090E-05	384538.9	3770056.6	120.8	0.00	1.70	0.85	YES
L0000102	0	0.10090E-05	384541.6	3770054.2	120.7	0.00	1.70	0.85	YES
L0000103	0	0.10090E-05	384544.4	3770051.8	120.6	0.00	1.70	0.85	YES
L0000104	0	0.10090E-05	384547.2	3770049.4	120.4	0.00	1.70	0.85	YES
L0000105	0	0.10090E-05	384549.9	3770047.0	120.3	0.00	1.70	0.85	YES
L0000106	0	0.10090E-05	384552.7	3770044.6	120.2	0.00	1.70	0.85	YES
L0000107	0	0.10090E-05	384555.4	3770042.2	120.0	0.00	1.70	0.85	YES
L0000108	0	0.10090E-05	384558.2	3770039.8	119.9	0.00	1.70	0.85	YES
L0000109	0	0.10090E-05	384560.9	3770037.4	119.7	0.00	1.70	0.85	YES
L0000571	0	0.10090E-05	384251.1	3770284.0	126.4	0.00	1.70	0.85	YES
L0000572	0	0.10090E-05	384253.9	3770281.6	125.9	0.00	1.70	0.85	YES
L0000573	0	0.10090E-05	384256.6	3770279.2	125.8	0.00	1.70	0.85	YES
L0000574	0	0.10090E-05	384259.4	3770276.8	125.7	0.00	1.70	0.85	YES
L0000575	0	0.10090E-05	384262.2	3770274.4	125.7	0.00	1.70	0.85	YES
L0000576	0	0.10090E-05	384264.9	3770272.0	125.8	0.00	1.70	0.85	YES
L0000577	0	0.10090E-05	384267.7	3770269.6	126.1	0.00	1.70	0.85	YES
L0000578	0	0.10090E-05	384270.5	3770267.3	126.4	0.00	1.70	0.85	YES
L0000579	0	0.10090E-05	384273.2	3770264.9	126.7	0.00	1.70	0.85	YES
L0000580	0	0.10090E-05	384276.0	3770262.5	126.9	0.00	1.70	0.85	YES
L0000581	0	0.10090E-05	384278.8	3770260.1	127.1	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY

ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0000582	0	0.10090E-05	384281.5	3770257.7	127.2	0.00	1.70	0.85	YES
L0000583	0	0.10090E-05	384284.3	3770255.3	127.3	0.00	1.70	0.85	YES
L0000584	0	0.10090E-05	384287.1	3770252.9	127.3	0.00	1.70	0.85	YES
L0000585	0	0.10090E-05	384289.8	3770250.5	127.2	0.00	1.70	0.85	YES
L0000586	0	0.10090E-05	384292.6	3770248.1	127.2	0.00	1.70	0.85	YES
L0000587	0	0.10090E-05	384295.4	3770245.7	127.0	0.00	1.70	0.85	YES
L0000588	0	0.10090E-05	384298.1	3770243.3	126.8	0.00	1.70	0.85	YES
L0000589	0	0.10090E-05	384300.9	3770240.9	126.6	0.00	1.70	0.85	YES
L0000590	0	0.10090E-05	384303.7	3770238.5	126.5	0.00	1.70	0.85	YES
L0000591	0	0.10090E-05	384306.4	3770236.1	126.6	0.00	1.70	0.85	YES
L0000592	0	0.10090E-05	384309.2	3770233.8	126.8	0.00	1.70	0.85	YES
L0000593	0	0.10090E-05	384312.0	3770231.4	126.9	0.00	1.70	0.85	YES
L0000594	0	0.10090E-05	384314.7	3770229.0	127.0	0.00	1.70	0.85	YES
L0000595	0	0.10090E-05	384317.5	3770226.6	127.0	0.00	1.70	0.85	YES
L0000596	0	0.10090E-05	384320.3	3770224.2	127.0	0.00	1.70	0.85	YES
L0000597	0	0.10090E-05	384323.0	3770221.8	126.9	0.00	1.70	0.85	YES
L0000598	0	0.10090E-05	384325.8	3770219.4	126.8	0.00	1.70	0.85	YES
L0000599	0	0.10090E-05	384328.6	3770217.0	126.6	0.00	1.70	0.85	YES
L0000600	0	0.10090E-05	384331.3	3770214.6	126.5	0.00	1.70	0.85	YES
L0000601	0	0.10090E-05	384334.1	3770212.2	126.5	0.00	1.70	0.85	YES
L0000602	0	0.10090E-05	384336.9	3770209.8	126.5	0.00	1.70	0.85	YES
L0000603	0	0.10090E-05	384339.6	3770207.4	126.6	0.00	1.70	0.85	YES
L0000604	0	0.10090E-05	384342.4	3770205.0	126.7	0.00	1.70	0.85	YES
L0000605	0	0.10090E-05	384345.2	3770202.6	126.7	0.00	1.70	0.85	YES
L0000606	0	0.10090E-05	384347.9	3770200.3	126.7	0.00	1.70	0.85	YES
L0000607	0	0.10090E-05	384350.7	3770197.9	126.7	0.00	1.70	0.85	YES
L0000608	0	0.10090E-05	384353.5	3770195.5	126.7	0.00	1.70	0.85	YES
L0000609	0	0.10090E-05	384356.2	3770193.1	126.6	0.00	1.70	0.85	YES
L0000610	0	0.10090E-05	384359.0	3770190.7	126.6	0.00	1.70	0.85	YES
L0000611	0	0.10090E-05	384361.7	3770188.3	126.5	0.00	1.70	0.85	YES
L0000612	0	0.10090E-05	384364.5	3770185.9	126.5	0.00	1.70	0.85	YES
L0000613	0	0.10090E-05	384367.3	3770183.5	126.5	0.00	1.70	0.85	YES
L0000614	0	0.10090E-05	384370.0	3770181.1	126.4	0.00	1.70	0.85	YES
L0000615	0	0.10090E-05	384372.8	3770178.7	126.4	0.00	1.70	0.85	YES
L0000616	0	0.10090E-05	384375.6	3770176.3	126.5	0.00	1.70	0.85	YES
L0000617	0	0.10090E-05	384378.3	3770173.9	126.6	0.00	1.70	0.85	YES
L0000618	0	0.10090E-05	384381.1	3770171.5	126.7	0.00	1.70	0.85	YES
L0000619	0	0.10090E-05	384383.9	3770169.1	126.7	0.00	1.70	0.85	YES
L0000620	0	0.10090E-05	384386.6	3770166.8	126.7	0.00	1.70	0.85	YES
L0000621	0	0.10090E-05	384389.4	3770164.4	126.7	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000622	0	0.10090E-05	384392.2	3770162.0	126.7	0.00	1.70	0.85	YES	
L0000623	0	0.10090E-05	384394.9	3770159.6	126.6	0.00	1.70	0.85	YES	
L0000624	0	0.10090E-05	384397.7	3770157.2	126.5	0.00	1.70	0.85	YES	
L0000625	0	0.10090E-05	384400.5	3770154.8	126.4	0.00	1.70	0.85	YES	
L0000626	0	0.10090E-05	384403.2	3770152.4	126.2	0.00	1.70	0.85	YES	
L0000627	0	0.10090E-05	384406.0	3770150.0	126.0	0.00	1.70	0.85	YES	
L0000628	0	0.10090E-05	384408.8	3770147.6	125.9	0.00	1.70	0.85	YES	
L0000629	0	0.10090E-05	384411.5	3770145.2	125.9	0.00	1.70	0.85	YES	
L0000630	0	0.10090E-05	384414.3	3770142.8	125.9	0.00	1.70	0.85	YES	
L0000631	0	0.10090E-05	384417.1	3770140.4	125.8	0.00	1.70	0.85	YES	
L0000632	0	0.10090E-05	384419.8	3770138.0	125.7	0.00	1.70	0.85	YES	
L0000633	0	0.10090E-05	384422.6	3770135.6	125.7	0.00	1.70	0.85	YES	
L0000634	0	0.10090E-05	384425.4	3770133.2	125.6	0.00	1.70	0.85	YES	
L0000635	0	0.10090E-05	384428.1	3770130.9	125.5	0.00	1.70	0.85	YES	
L0000636	0	0.10090E-05	384430.9	3770128.5	125.3	0.00	1.70	0.85	YES	
L0000637	0	0.10090E-05	384433.7	3770126.1	125.2	0.00	1.70	0.85	YES	
L0000638	0	0.10090E-05	384436.4	3770123.7	125.1	0.00	1.70	0.85	YES	
L0000639	0	0.10090E-05	384439.2	3770121.3	125.0	0.00	1.70	0.85	YES	
L0000640	0	0.10090E-05	384442.0	3770118.9	124.9	0.00	1.70	0.85	YES	
L0000641	0	0.10090E-05	384444.7	3770116.5	124.8	0.00	1.70	0.85	YES	
L0000642	0	0.10090E-05	384447.5	3770114.1	124.6	0.00	1.70	0.85	YES	
L0000643	0	0.10090E-05	384450.3	3770111.7	124.5	0.00	1.70	0.85	YES	
L0000644	0	0.10090E-05	384453.0	3770109.3	124.3	0.00	1.70	0.85	YES	
L0000645	0	0.10090E-05	384455.8	3770106.9	124.2	0.00	1.70	0.85	YES	
L0000646	0	0.10090E-05	384458.6	3770104.5	124.2	0.00	1.70	0.85	YES	
L0000647	0	0.10090E-05	384461.3	3770102.1	124.0	0.00	1.70	0.85	YES	
L0000648	0	0.10090E-05	384464.1	3770099.7	123.9	0.00	1.70	0.85	YES	
L0000649	0	0.10090E-05	384466.9	3770097.4	123.8	0.00	1.70	0.85	YES	
L0000650	0	0.10090E-05	384469.6	3770095.0	123.7	0.00	1.70	0.85	YES	
L0000651	0	0.10090E-05	384472.4	3770092.6	123.6	0.00	1.70	0.85	YES	
L0000652	0	0.10090E-05	384475.2	3770090.2	123.5	0.00	1.70	0.85	YES	
L0000653	0	0.10090E-05	384477.9	3770087.8	123.3	0.00	1.70	0.85	YES	
L0000654	0	0.10090E-05	384480.7	3770085.4	123.2	0.00	1.70	0.85	YES	
L0000655	0	0.10090E-05	384483.5	3770083.0	122.8	0.00	1.70	0.85	YES	
L0000656	0	0.10090E-05	384486.2	3770080.6	122.5	0.00	1.70	0.85	YES	
L0000657	0	0.10090E-05	384489.0	3770078.2	122.2	0.00	1.70	0.85	YES	
L0000658	0	0.10090E-05	384491.8	3770075.8	121.9	0.00	1.70	0.85	YES	
L0000659	0	0.10090E-05	384494.5	3770073.4	121.8	0.00	1.70	0.85	YES	
L0000660	0	0.10090E-05	384497.3	3770071.0	121.6	0.00	1.70	0.85	YES	
L0000661	0	0.10090E-05	384500.1	3770068.6	121.6	0.00	1.70	0.85	YES	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000662	0	0.10090E-05	384502.8	3770066.2	121.6	0.00	1.70	0.85	YES	
L0000663	0	0.10090E-05	384505.6	3770063.9	121.7	0.00	1.70	0.85	YES	
L0000664	0	0.10090E-05	384508.4	3770061.5	121.8	0.00	1.70	0.85	YES	
L0000665	0	0.10090E-05	384511.1	3770059.1	121.7	0.00	1.70	0.85	YES	
L0000666	0	0.10090E-05	384513.9	3770056.7	121.6	0.00	1.70	0.85	YES	
L0000667	0	0.10090E-05	384516.7	3770054.3	121.5	0.00	1.70	0.85	YES	
L0000668	0	0.10090E-05	384519.4	3770051.9	121.0	0.00	1.70	0.85	YES	
L0000669	0	0.10090E-05	384522.2	3770049.5	120.7	0.00	1.70	0.85	YES	
L0000670	0	0.10090E-05	384525.0	3770047.1	120.5	0.00	1.70	0.85	YES	
L0000671	0	0.10090E-05	384527.7	3770044.7	120.4	0.00	1.70	0.85	YES	
L0000672	0	0.10090E-05	384530.5	3770042.3	120.4	0.00	1.70	0.85	YES	
L0000673	0	0.10090E-05	384533.2	3770039.9	120.5	0.00	1.70	0.85	YES	
L0000674	0	0.10090E-05	384536.0	3770037.5	120.5	0.00	1.70	0.85	YES	
L0000675	0	0.10090E-05	384538.8	3770035.1	120.3	0.00	1.70	0.85	YES	
L0000676	0	0.10090E-05	384541.5	3770032.7	120.2	0.00	1.70	0.85	YES	
L0000677	0	0.10090E-05	384544.3	3770030.3	120.1	0.00	1.70	0.85	YES	
L0000678	0	0.10090E-05	384547.1	3770028.0	120.0	0.00	1.70	0.85	YES	
L0000679	0	0.10090E-05	384549.8	3770025.6	119.8	0.00	1.70	0.85	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
	L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
	L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
	L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
	L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 ,
	L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,

L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,

L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 ,

L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 ,

L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 ,

L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 ,

L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 ,

L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 , L0000104 ,

L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000571 , L0000572 , L0000573 ,

L0000574 , L0000575 , L0000576 , L0000577 , L0000578 , L0000579 , L0000580 , L0000581 ,

L0000582 , L0000583 , L0000584 , L0000585 , L0000586 , L0000587 , L0000588 , L0000589 ,

L0000590 , L0000591 , L0000592 , L0000593 , L0000594 , L0000595 , L0000596 , L0000597 ,

L0000598 , L0000599 , L0000600 , L0000601 , L0000602 , L0000603 , L0000604 , L0000605 ,

L0000606 , L0000607 , L0000608 , L0000609 , L0000610 , L0000611 , L0000612 , L0000613 ,

L0000614 , L0000615 , L0000616 , L0000617 , L0000618 , L0000619 , L0000620 , L0000621 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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L0000622 , L0000623 , L0000624 , L0000625 , L0000626 , L0000627 , L0000628 , L0000629 ,

L0000630 , L0000631 , L0000632 , L0000633 , L0000634 , L0000635 , L0000636 , L0000637 ,

L0000638 , L0000639 , L0000640 , L0000641 , L0000642 , L0000643 , L0000644 , L0000645 ,

L0000646 , L0000647 , L0000648 , L0000649 , L0000650 , L0000651 , L0000652 , L0000653 ,

L0000654 , L0000655 , L0000656 , L0000657 , L0000658 , L0000659 , L0000660 , L0000661 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
		L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
		L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
		L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
		L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 ,
		L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
		L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,
		L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 ,
		L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 ,
		L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 ,
		L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 ,
		L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 ,
		L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 , L0000104 ,
		L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000571 , L0000572 , L0000573 ,
		L0000574 , L0000575 , L0000576 , L0000577 , L0000578 , L0000579 , L0000580 , L0000581 ,
		L0000582 , L0000583 , L0000584 , L0000585 , L0000586 , L0000587 , L0000588 , L0000589 ,

L0000590 , L0000591 , L0000592 , L0000593 , L0000594 , L0000595 , L0000596 , L0000597 ,

L0000598 , L0000599 , L0000600 , L0000601 , L0000602 , L0000603 , L0000604 , L0000605 ,

L0000606 , L0000607 , L0000608 , L0000609 , L0000610 , L0000611 , L0000612 , L0000613 ,

L0000614 , L0000615 , L0000616 , L0000617 , L0000618 , L0000619 , L0000620 , L0000621 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0000622 , L0000623 , L0000624 , L0000625 , L0000626 , L0000627 , L0000628 , L0000629 ,

L0000630 , L0000631 , L0000632 , L0000633 , L0000634 , L0000635 , L0000636 , L0000637 ,

L0000638 , L0000639 , L0000640 , L0000641 , L0000642 , L0000643 , L0000644 , L0000645 ,

L0000646 , L0000647 , L0000648 , L0000649 , L0000650 , L0000651 , L0000652 , L0000653 ,

L0000654 , L0000655 , L0000656 , L0000657 , L0000658 , L0000659 , L0000660 , L0000661 ,

L0000662 , L0000663 , L0000664 , L0000665 , L0000666 , L0000667 , L0000668 , L0000669 ,

L0000670 , L0000671 , L0000672 , L0000673 , L0000674 , L0000675 , L0000676 , L0000677 ,

L0000678 , L0000679 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

384229.9, 384246.6, 384263.3, 384280.0, 384296.8, 384313.5, 384330.2, 384346.9, 384363.6, 384380.3,
384397.1, 384413.8, 384430.5, 384447.2, 384464.0, 384480.7, 384497.4, 384514.1, 384530.8, 384547.5,
384564.3,

*** Y-COORDINATES OF GRID ***
(METERS)

3769956.5, 3769973.8, 3769991.1, 3770008.4, 3770025.7, 3770043.0, 3770060.3, 3770077.6, 3770094.9, 3770112.2,
3770129.5, 3770146.8, 3770164.1, 3770181.4, 3770198.7, 3770216.0, 3770233.3, 3770250.6, 3770267.9, 3770285.2,
3770302.5,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384229.87	384246.59	384263.31	384280.03	384296.75	384313.47	384330.19	384346.91	384363.63
3770302.50	126.20	126.40	127.50	129.40	132.30	134.10	134.20	134.50	134.90
3770285.20	129.00	126.90	126.40	127.50	129.00	131.00	133.20	133.80	134.20
3770267.90	130.70	127.70	126.30	126.40	126.70	128.30	131.80	132.70	133.40
3770250.60	130.50	129.30	128.40	127.80	126.90	127.10	128.70	130.60	132.20
3770233.30	131.40	130.30	129.40	128.60	127.40	126.80	126.80	128.80	130.40
3770216.00	133.30	130.70	129.30	128.90	128.40	127.60	126.50	127.20	127.80
3770198.70	134.20	131.90	130.10	128.80	128.40	127.80	126.90	126.70	126.70
3770181.40	134.70	133.30	131.10	128.40	128.10	127.80	127.50	126.80	126.40
3770164.10	135.00	133.60	131.30	128.60	127.70	127.10	126.70	126.50	126.60
3770146.80	135.10	133.60	131.40	128.90	127.50	126.50	125.80	126.10	126.60
3770129.50	134.40	132.60	131.00	129.60	127.70	126.20	125.10	124.90	125.20
3770112.20	133.80	132.10	131.00	130.30	128.10	126.30	125.00	124.00	123.90
3770094.90	133.60	132.40	131.70	131.00	128.90	127.30	126.20	124.00	122.80
3770077.60	133.90	133.40	132.70	131.90	130.00	128.60	127.40	124.20	122.20
3770060.30	134.30	134.60	134.10	133.00	131.20	129.90	128.70	124.60	122.00
3770043.00	135.30	135.90	135.30	133.90	132.60	131.00	129.30	125.90	123.10
3770025.70	136.30	137.10	136.30	134.90	133.90	132.10	129.70	127.50	124.80
3770008.40	135.30	136.30	136.20	135.50	134.30	132.30	129.80	127.20	124.90
3769991.10	134.30	135.30	135.80	135.80	134.30	132.30	129.80	126.90	124.80
3769973.80	133.10	134.00	134.60	134.70	133.20	131.50	129.60	126.60	123.40
3769956.50	131.80	132.60	133.20	133.30	132.00	130.30	128.30	125.80	122.10

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	135.30	134.80	134.20	134.30	133.80	132.70	130.50	129.30	128.80
3770285.20	134.90	134.60	134.50	135.20	134.50	133.10	130.40	129.00	128.50
3770267.90	134.40	134.40	134.70	135.90	135.10	133.30	130.30	128.80	128.20
3770250.60	133.20	134.00	134.70	135.40	134.30	132.60	130.20	128.70	127.80
3770233.30	131.20	132.80	134.20	134.80	133.70	132.00	129.90	128.40	127.30
3770216.00	128.10	130.80	133.20	134.10	133.30	131.70	129.20	127.80	126.90
3770198.70	126.80	128.80	130.90	132.40	131.80	130.50	128.60	127.50	126.60
3770181.40	126.50	126.70	127.80	130.20	129.70	128.80	128.20	127.40	126.50
3770164.10	126.90	126.50	126.70	127.90	127.70	127.50	127.80	127.40	126.50
3770146.80	127.40	126.50	125.90	125.70	125.90	126.40	127.40	127.40	126.50
3770129.50	126.10	126.10	125.90	125.40	125.20	125.20	125.50	125.10	124.30
3770112.20	124.60	125.20	125.30	124.70	124.50	124.30	123.90	123.20	122.50
3770094.90	122.50	122.70	123.00	123.30	123.70	123.80	123.50	122.90	122.40
3770077.60	121.20	121.10	121.20	121.70	122.10	122.30	122.10	122.20	122.10
3770060.30	120.70	120.20	119.90	119.90	119.80	119.60	119.50	120.80	121.70
3770043.00	121.00	119.80	119.00	118.50	118.20	117.80	117.60	118.40	119.40
3770025.70	121.60	119.60	118.20	117.30	116.90	116.40	115.90	115.40	116.30
3770008.40	122.80	119.90	117.80	116.70	116.10	115.50	114.90	114.40	114.80
3769991.10	123.20	119.80	117.60	116.30	115.40	114.60	114.00	113.60	113.40
3769973.80	120.00	118.70	117.80	117.30	115.20	113.80	113.30	112.80	112.40
3769956.50	117.90	117.90	117.80	117.80	115.50	113.80	112.70	112.00	111.40

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	384530.83	384547.55	384564.27
3770302.50	130.30	131.80	133.10
3770285.20	129.90	131.90	133.80
3770267.90	129.60	132.10	134.80
3770250.60	128.30	131.20	134.80
3770233.30	127.20	130.40	134.60
3770216.00	126.50	129.70	134.10
3770198.70	125.80	129.00	133.50
3770181.40	125.20	128.30	132.80
3770164.10	124.60	126.00	128.80
3770146.80	124.10	123.10	123.80
3770129.50	122.90	122.30	122.60

3770112.20	121.90	121.60	121.20
3770094.90	121.70	120.30	118.90
3770077.60	121.50	119.70	117.90
3770060.30	121.20	120.30	118.90
3770043.00	120.50	120.30	119.40
3770025.70	119.60	119.90	119.40
3770008.40	116.80	118.00	118.80
3769991.10	113.60	115.90	117.80
3769973.80	112.10	112.90	113.80
3769956.50	110.90	110.60	110.50

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 384229.87	384246.59	384263.31	384280.03	384296.75	384313.47	384330.19	384346.91	384363.63
3770302.50	152.60	152.60	150.00	139.20	134.20	134.10	134.20	134.50	134.90
3770285.20	130.90	139.20	147.90	139.20	135.50	134.20	133.20	133.80	134.20
3770267.90	130.70	134.50	139.20	135.50	135.50	135.50	132.90	132.70	133.40
3770250.60	130.50	134.00	134.00	134.20	135.50	135.50	134.80	133.40	132.20
3770233.30	134.00	134.00	134.00	128.60	132.90	134.80	134.80	134.80	134.80
3770216.00	134.00	134.90	134.90	128.90	128.40	127.60	134.80	134.80	134.80
3770198.70	134.20	134.90	134.90	134.90	128.40	127.80	126.90	134.50	135.10
3770181.40	134.70	133.30	134.90	135.50	132.80	127.80	127.50	126.80	134.50
3770164.10	135.00	133.60	135.50	135.50	135.50	127.10	126.70	126.50	126.60
3770146.80	135.10	133.60	135.50	135.50	135.50	135.50	125.80	126.10	126.60
3770129.50	134.40	135.50	135.50	135.50	135.50	135.50	133.10	124.90	125.20
3770112.20	133.80	134.20	131.00	130.30	131.50	137.50	137.50	137.50	123.90
3770094.90	133.60	132.40	131.70	131.00	137.50	137.50	137.50	137.50	137.50
3770077.60	133.90	133.40	132.70	131.90	137.50	137.50	137.50	137.50	137.50
3770060.30	134.30	134.60	134.10	137.50	137.50	137.50	137.50	137.50	137.50
3770043.00	135.30	135.90	137.50	137.50	137.50	137.50	137.50	137.50	137.50
3770025.70	136.30	137.10	136.30	134.90	133.90	133.60	136.30	137.50	137.50
3770008.40	135.30	136.30	136.20	135.50	134.30	136.30	136.30	137.50	137.50
3769991.10	134.30	135.30	135.80	135.80	134.30	136.30	136.30	137.50	137.50
3769973.80	133.10	134.00	134.60	134.70	136.30	136.30	136.30	136.30	137.50
3769956.50	131.80	133.60	133.20	134.50	134.50	136.30	136.30	136.30	137.50

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	135.30	134.80	134.20	134.30	133.80	133.30	136.30	133.30	136.30
3770285.20	134.90	134.60	134.50	135.20	134.50	133.10	136.30	136.30	136.30
3770267.90	134.40	134.40	134.70	135.90	135.10	136.30	136.30	136.30	136.30
3770250.60	133.20	134.00	134.70	135.40	134.30	136.30	136.30	136.30	136.30
3770233.30	134.50	134.50	134.20	134.80	133.70	132.00	136.30	136.30	136.30
3770216.00	136.30	134.50	133.20	134.10	133.30	131.70	135.10	136.30	136.10
3770198.70	136.30	135.10	134.00	134.00	134.00	134.00	135.10	135.10	136.10
3770181.40	135.10	135.10	135.10	134.00	134.00	134.00	134.00	132.40	136.10
3770164.10	134.00	135.10	135.10	134.00	134.00	134.00	127.80	127.40	136.10
3770146.80	127.40	134.00	134.00	135.10	134.00	134.00	127.40	127.40	136.10
3770129.50	126.10	126.10	125.90	134.00	134.00	134.00	127.70	127.70	136.10
3770112.20	125.30	126.30	126.30	124.70	124.50	124.30	127.70	134.80	136.10
3770094.90	137.50	126.30	126.30	123.30	123.70	123.80	123.50	122.90	136.10
3770077.60	137.50	137.50	133.60	122.60	123.70	123.70	123.20	122.20	134.80
3770060.30	137.50	137.50	137.50	133.60	123.70	123.70	123.70	120.80	121.70
3770043.00	137.50	137.50	137.50	137.50	136.30	123.70	134.80	134.80	134.80
3770025.70	137.50	137.50	137.50	137.50	137.50	136.30	134.80	136.10	136.10
3770008.40	137.50	137.50	137.50	137.50	137.50	137.50	136.30	134.80	136.10
3769991.10	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	134.80
3769973.80	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	136.30
3769956.50	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	136.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	384530.83	384547.55	384564.27
3770302.50	136.30	136.30	136.30
3770285.20	136.30	134.90	133.80
3770267.90	134.90	134.90	134.80
3770250.60	136.10	134.90	134.80
3770233.30	136.10	136.10	134.60
3770216.00	136.10	136.10	134.10
3770198.70	136.10	136.10	136.10
3770181.40	136.10	136.10	132.80

3770164.10	136.10	136.10	136.10
3770146.80	136.10	136.10	136.10
3770129.50	136.10	136.10	136.10
3770112.20	136.10	136.10	136.10
3770094.90	136.10	136.10	136.10
3770077.60	136.10	136.10	136.10
3770060.30	134.80	136.10	136.10
3770043.00	120.50	134.80	136.10
3770025.70	120.20	119.90	134.80
3770008.40	134.80	120.20	118.80
3769991.10	136.10	120.20	117.80
3769973.80	134.80	134.80	134.80
3769956.50	134.80	136.10	136.10

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(384316.8, 3770081.4, 128.1, 137.5, 0.0); (384338.4, 3770053.1, 127.0, 137.5, 0.0);
(384290.3, 3770038.6, 133.4, 137.5, 0.0); (384317.7, 3770025.8, 131.5, 133.6, 0.0);

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0000006	384280.0	3770285.2	-0.40
L0000007	384280.0	3770285.2	-0.81
L0000012	384296.8	3770267.9	0.55
L0000013	384296.8	3770267.9	-3.02
L0000014	384296.8	3770267.9	-0.51
L0000019	384313.5	3770250.6	-0.58
L0000020	384313.5	3770250.6	-1.62
L0000026	384330.2	3770233.3	0.24
L0000042	384380.3	3770198.7	0.59
L0000043	384380.3	3770198.7	-0.52
L0000049	384397.1	3770181.4	-2.01
L0000050	384397.1	3770181.4	-1.12

L0000055	384413.8	3770164.1	-0.14
L0000056	384413.8	3770164.1	-2.53
L0000057	384413.8	3770164.1	0.46
L0000062	384430.5	3770146.8	-0.07
L0000063	384430.5	3770146.8	0.05
L0000079	384480.7	3770112.2	0.04
L0000085	384497.4	3770094.9	-1.00
L0000086	384497.4	3770094.9	-1.41
L0000091	384514.1	3770077.6	0.50
L0000092	384514.1	3770077.6	-3.00
L0000093	384514.1	3770077.6	-0.44
L0000098	384530.8	3770060.3	-0.11
L0000099	384530.8	3770060.3	-0.88
L0000576	384263.3	3770267.9	0.79
L0000592	384313.5	3770233.3	0.65
L0000593	384313.5	3770233.3	-1.20
L0000594	384313.5	3770233.3	0.85
L0000599	384330.2	3770216.0	-1.74
L0000600	384330.2	3770216.0	-1.86
L0000605	384346.9	3770198.7	0.66
L0000606	384346.9	3770198.7	-1.80
L0000607	384346.9	3770198.7	0.21
L0000612	384363.6	3770181.4	0.93
L0000613	384363.6	3770181.4	0.56
L0000629	384413.8	3770146.8	-0.90
L0000630	384413.8	3770146.8	0.36
L0000635	384430.5	3770129.5	-0.92
L0000636	384430.5	3770129.5	-2.55

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0000642	384447.2	3770112.2	-1.73
L0000643	384447.2	3770112.2	-0.58
L0000649	384464.0	3770094.9	0.15
L0000665	384514.1	3770060.3	-0.42
L0000666	384514.1	3770060.3	-0.02
L0000671	384530.8	3770043.0	-0.11
L0000672	384530.8	3770043.0	-2.89
L0000673	384530.8	3770043.0	0.26
L0000678	384547.5	3770025.7	-1.35

L0000679 384547.5 3770025.7 -1.35

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: E:\New MET data\CELA_V9_ADJU\CELA_v9.SFC Met Version: 16216
Profile file: E:\New MET data\CELA_V9_ADJU\CELA_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93134 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-33.0	0.331	-9.000	-9.000	-999.	456.	120.2	0.56	0.86	1.00	3.10	38.	21.3	284.9	17.7
10	01	01	1	02	-26.9	0.285	-9.000	-9.000	-999.	367.	89.6	0.56	0.86	1.00	2.70	38.	21.3	284.2	17.7
10	01	01	1	03	-38.6	0.387	-9.000	-9.000	-999.	577.	164.6	0.56	0.86	1.00	3.60	35.	21.3	284.2	17.7
10	01	01	1	04	-33.0	0.331	-9.000	-9.000	-999.	458.	120.2	0.56	0.86	1.00	3.10	34.	21.3	283.8	17.7
10	01	01	1	05	-33.1	0.331	-9.000	-9.000	-999.	456.	120.2	0.56	0.86	1.00	3.10	37.	21.3	283.1	17.7

```
10 01 01   1 06  -38.7  0.387 -9.000 -9.000 -999.  577.    164.5  0.56   0.86   1.00    3.60   24.   21.3  283.1   17.7
10 01 01   1 07  -38.6  0.387 -9.000 -9.000 -999.  577.    164.5  0.56   0.86   1.00    3.60   35.   21.3  283.8   17.7
10 01 01   1 08  -29.6  0.435 -9.000 -9.000 -999.  688.    251.8  0.56   0.86   0.55    4.00   35.   21.3  283.8   17.7
10 01 01   1 09   30.0  0.426  0.367  0.008   59.  666.   -232.0  0.56   0.86   0.32    3.60   38.   21.3  286.4   17.7
10 01 01   1 10   72.3  0.359  0.629  0.008  124.  519.    -57.8  0.56   0.86   0.24    2.70   34.   21.3  290.4   17.7
10 01 01   1 11  104.4  0.321  0.998  0.008  344.  437.    -28.6  0.56   0.86   0.21    2.20   43.   21.3  292.5   17.7
10 01 01   1 12  115.1  0.283  1.156  0.008  484.  363.    -17.9  0.56   0.86   0.20    1.80   62.   21.3  295.9   17.7
10 01 01   1 13   91.4  0.406  1.130  0.008  568.  622.    -66.2  0.56   0.86   0.20    3.10  263.   21.3  294.2   17.7
10 01 01   1 14   89.3  0.316  1.168  0.008  642.  432.    -31.9  0.56   0.86   0.21    2.20  259.   21.3  294.9   17.7
10 01 01   1 15   42.6  0.295  0.928  0.008  675.  384.    -54.0  0.56   0.86   0.25    2.20  267.   21.3  294.9   17.7
10 01 01   1 16   12.0  0.359  0.609  0.008  680.  516.   -347.9  0.56   0.86   0.33    3.10  264.   21.3  292.5   17.7
10 01 01   1 17  -15.7  0.231 -9.000 -9.000 -999.  276.     70.7  0.56   0.86   0.60    2.20  288.   21.3  290.9   17.7
10 01 01   1 18   -6.1  0.135 -9.000 -9.000 -999.  124.     36.7  0.56   0.86   1.00    1.30  344.   21.3  289.2   17.7
10 01 01   1 19  -11.4  0.184 -9.000 -9.000 -999.  190.     49.2  0.56   0.86   1.00    1.80    2.   21.3  288.8   17.7
10 01 01   1 20  -17.4  0.229 -9.000 -9.000 -999.  263.     62.1  0.56   0.86   1.00    2.20   22.   21.3  288.1   17.7
10 01 01   1 21  -17.4  0.229 -9.000 -9.000 -999.  263.     61.9  0.56   0.86   1.00    2.20   40.   21.3  287.0   17.7
10 01 01   1 22  -11.5  0.184 -9.000 -9.000 -999.  190.     49.1  0.56   0.86   1.00    1.80  306.   21.3  287.0   17.7
10 01 01   1 23  -11.5  0.184 -9.000 -9.000 -999.  190.     49.0  0.56   0.86   1.00    1.80   45.   21.3  286.4   17.7
10 01 01   1 24  -11.5  0.184 -9.000 -9.000 -999.  190.     49.0  0.56   0.86   1.00    1.80   67.   21.3  286.4   17.7


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
10 01 01 01   17.7 0 -999.  -99.00   284.9   99.0  -99.00  -99.00
10 01 01 01   21.3 1   38.    3.10  -999.0   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court\7427 Firmin Court.isc         ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations opening year 2020                               ***        08:23:40
                                                                                                                   PAGE  24
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026    , L0000027    , L0000028    ,  . . .      ,

                                     *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                          ** CONC OF DPM      IN MICROGRAMS/M**3                        **

   Y-COORD  |                                                  X-COORD (METERS)
   (METERS) |    384229.87    384246.59    384263.31    384280.03    384296.75    384313.47    384330.19    384346.91    384363.63
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3770302.50 |       0.01187      0.02024      0.04790      0.03040      0.02085      0.01610      0.01365      0.01177      0.01030
 3770285.20 |       0.01471      0.05465      0.07910      0.07674      0.04304      0.02636      0.01940      0.01565      0.01315
 3770267.90 |       0.01423      0.03008      0.08674      0.10019      0.07189      0.05339      0.03002      0.02193      0.01728
 3770250.60 |       0.01238      0.01956      0.03435      0.08354      0.12416      0.09534      0.06381      0.03416      0.02396
```

3770233.30	0.01045	0.01470	0.02151	0.03390	0.06858	0.07709	0.11173	0.07892	0.03804
3770216.00	0.00881	0.01181	0.01591	0.02196	0.03246	0.05863	0.09614	0.11278	0.10342
3770198.70	0.00766	0.00977	0.01253	0.01632	0.02174	0.03090	0.05158	0.07297	0.10550
3770181.40	0.00677	0.00827	0.01029	0.01298	0.01636	0.02125	0.02926	0.04609	0.07953
3770164.10	0.00606	0.00723	0.00875	0.01069	0.01306	0.01618	0.02062	0.02771	0.04170
3770146.80	0.00547	0.00642	0.00759	0.00903	0.01080	0.01297	0.01582	0.01985	0.02617
3770129.50	0.00501	0.00580	0.00669	0.00776	0.00911	0.01073	0.01272	0.01534	0.01903
3770112.20	0.00460	0.00524	0.00595	0.00677	0.00783	0.00907	0.01054	0.01237	0.01479
3770094.90	0.00421	0.00473	0.00531	0.00598	0.00680	0.00778	0.00891	0.01027	0.01194
3770077.60	0.00385	0.00427	0.00475	0.00530	0.00597	0.00672	0.00762	0.00869	0.00990
3770060.30	0.00353	0.00386	0.00425	0.00472	0.00528	0.00588	0.00657	0.00745	0.00837
3770043.00	0.00322	0.00348	0.00382	0.00423	0.00467	0.00518	0.00575	0.00645	0.00718
3770025.70	0.00295	0.00316	0.00345	0.00379	0.00415	0.00459	0.00507	0.00561	0.00620
3770008.40	0.00275	0.00294	0.00316	0.00343	0.00374	0.00411	0.00451	0.00494	0.00540
3769991.10	0.00257	0.00273	0.00291	0.00312	0.00339	0.00370	0.00403	0.00437	0.00473
3769973.80	0.00241	0.00255	0.00271	0.00288	0.00311	0.00335	0.00361	0.00389	0.00418
3769956.50	0.00225	0.00238	0.00252	0.00267	0.00286	0.00306	0.00327	0.00348	0.00370

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	0.00912	0.00826	0.00753	0.00684	0.00627	0.00580	0.00537	0.00494	0.00456
3770285.20	0.01124	0.00994	0.00885	0.00785	0.00715	0.00658	0.00606	0.00553	0.00506
3770267.90	0.01413	0.01210	0.01049	0.00906	0.00819	0.00750	0.00687	0.00621	0.00564
3770250.60	0.01859	0.01509	0.01263	0.01078	0.00964	0.00870	0.00784	0.00701	0.00630
3770233.30	0.02593	0.01975	0.01572	0.01308	0.01148	0.01018	0.00902	0.00797	0.00708
3770216.00	0.04327	0.02784	0.02060	0.01634	0.01389	0.01205	0.01050	0.00913	0.00801
3770198.70	0.08662	0.04786	0.02964	0.02189	0.01761	0.01462	0.01240	0.01060	0.00918
3770181.40	0.10870	0.09565	0.05474	0.03199	0.02337	0.01839	0.01502	0.01256	0.01066
3770164.10	0.09164	0.12611	0.07910	0.06290	0.03528	0.02477	0.01899	0.01531	0.01266
3770146.80	0.03792	0.07309	0.09806	0.09420	0.07623	0.03837	0.02586	0.01949	0.01549
3770129.50	0.02471	0.03492	0.06131	0.10030	0.12143	0.09581	0.04178	0.02734	0.02007
3770112.20	0.01819	0.02331	0.03219	0.05287	0.09352	0.10834	0.10168	0.04606	0.02859
3770094.90	0.01415	0.01722	0.02181	0.02956	0.04639	0.10120	0.10847	0.09123	0.05103
3770077.60	0.01142	0.01345	0.01622	0.02036	0.02715	0.04090	0.09143	0.12196	0.07605

3770060.30	0.00947	0.01087	0.01269	0.01517	0.01873	0.02438	0.03526	0.07085	0.09205
3770043.00	0.00800	0.00900	0.01023	0.01181	0.01394	0.01690	0.02153	0.03053	0.05524
3770025.70	0.00684	0.00756	0.00841	0.00945	0.01079	0.01250	0.01480	0.01813	0.02437
3770008.40	0.00590	0.00643	0.00702	0.00773	0.00859	0.00961	0.01084	0.01235	0.01442
3769991.10	0.00512	0.00552	0.00594	0.00642	0.00697	0.00757	0.00825	0.00896	0.00964
3769973.80	0.00445	0.00476	0.00508	0.00544	0.00577	0.00611	0.00648	0.00681	0.00705
3769956.50	0.00389	0.00413	0.00439	0.00465	0.00486	0.00506	0.00524	0.00539	0.00545

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 384530.83	384547.55	384564.27
3770302.50	0.00421	0.00387	0.00356
3770285.20	0.00465	0.00424	0.00385
3770267.90	0.00514	0.00465	0.00416
3770250.60	0.00570	0.00514	0.00454
3770233.30	0.00634	0.00570	0.00496
3770216.00	0.00710	0.00634	0.00546
3770198.70	0.00802	0.00710	0.00605
3770181.40	0.00915	0.00801	0.00674
3770164.10	0.01060	0.00909	0.00780
3770146.80	0.01258	0.01040	0.00876
3770129.50	0.01550	0.01231	0.01001
3770112.20	0.02026	0.01518	0.01172
3770094.90	0.02953	0.01987	0.01416
3770077.60	0.05704	0.02936	0.01808
3770060.30	0.09155	0.06340	0.02643
3770043.00	0.07042	0.11422	0.05542
3770025.70	0.04165	0.05015	0.02854
3770008.40	0.01738	0.01870	0.01447
3769991.10	0.01010	0.01016	0.00909
3769973.80	0.00708	0.00689	0.00638
3769956.50	0.00539	0.00519	0.00486

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
384316.78	3770081.36	0.00711	384338.40	3770053.13	0.00661
384290.31	3770038.57	0.00436	384317.67	3770025.77	0.00471

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.12611 AT	(384397.07, 3770164.10, 126.50, 135.10, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.12416 AT	(384296.75, 3770250.60, 126.90, 135.50, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.12196 AT	(384497.39, 3770077.60, 122.20, 122.20, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.12143 AT	(384447.23, 3770129.50, 125.20, 134.00, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.11422 AT	(384547.55, 3770043.00, 120.30, 134.80, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.11278 AT	(384346.91, 3770216.00, 127.20, 134.80, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.11173 AT	(384330.19, 3770233.30, 126.80, 134.80, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.10870 AT	(384380.35, 3770181.40, 126.50, 135.10, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.10847 AT	(384480.67, 3770094.90, 123.50, 123.50, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.10834 AT	(384463.95, 3770112.20, 124.30, 124.30, 0.00)	GC	UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 4 Warning Message(s)
A Total of 808 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 804 Missing Hours Identified (1.83 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

ME W186	535	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	535	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	
MX W450	17521	CHKDAT: Record Out of Sequence in Meteorological File at:	14010101
MX W450	17521	CHKDAT: Record Out of Sequence in Meteorological File at:	2 year gap

****
*** AERMOD Finishes Successfully ***
****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.0
** Lakes Environmental Software Inc.
** Date: 7/27/2018
** File: C:\Lakes\AERMOD View\7427 Firmin Court 2 yr\7427 Firmin Court 2 yr.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\7427 Firmin Court 2 yr\7427 Firmin Court 2 yr.i
   TITLETWO DPM concentrations 2yr
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "7427 Firmin Court 2 yr.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC WB 101 FWY
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000963
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 384261.633, 3770298.000, 126.94, 0.00, 1.70
** 384561.659, 3770036.801, 119.57, 0.00, 1.70
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LOCATION L0000680     VOLUME   384263.012 3770296.799 127.10
LOCATION L0000681     VOLUME   384265.771 3770294.398 127.20
LOCATION L0000682     VOLUME   384268.529 3770291.996 127.26
LOCATION L0000683     VOLUME   384271.288 3770289.594 127.28
LOCATION L0000684     VOLUME   384274.047 3770287.193 127.26
LOCATION L0000685     VOLUME   384276.805 3770284.791 127.21
LOCATION L0000686     VOLUME   384279.564 3770282.389 127.11
LOCATION L0000687     VOLUME   384282.323 3770279.988 127.02
LOCATION L0000688     VOLUME   384285.081 3770277.586 126.89
LOCATION L0000689     VOLUME   384287.840 3770275.185 126.70
LOCATION L0000690     VOLUME   384290.598 3770272.783 126.45
LOCATION L0000691     VOLUME   384293.357 3770270.381 126.57
LOCATION L0000692     VOLUME   384296.116 3770267.980 126.67
LOCATION L0000693     VOLUME   384298.874 3770265.578 126.72
LOCATION L0000694     VOLUME   384301.633 3770263.176 126.72
LOCATION L0000695     VOLUME   384304.392 3770260.775 126.66
LOCATION L0000696     VOLUME   384307.150 3770258.373 126.74
LOCATION L0000697     VOLUME   384309.909 3770255.971 127.02
LOCATION L0000698     VOLUME   384312.668 3770253.570 127.21
LOCATION L0000699     VOLUME   384315.426 3770251.168 127.31
LOCATION L0000700     VOLUME   384318.185 3770248.766 127.33
LOCATION L0000701     VOLUME   384320.944 3770246.365 127.26
LOCATION L0000702     VOLUME   384323.702 3770243.963 127.11
LOCATION L0000703     VOLUME   384326.461 3770241.561 126.87
LOCATION L0000704     VOLUME   384329.220 3770239.160 126.90
LOCATION L0000705     VOLUME   384331.978 3770236.758 126.99
LOCATION L0000706     VOLUME   384334.737 3770234.357 127.30
LOCATION L0000707     VOLUME   384337.495 3770231.955 127.55
LOCATION L0000708     VOLUME   384340.254 3770229.553 127.74
LOCATION L0000709     VOLUME   384343.013 3770227.152 127.87
LOCATION L0000710     VOLUME   384345.771 3770224.750 127.93
LOCATION L0000711     VOLUME   384348.530 3770222.348 127.94
LOCATION L0000712     VOLUME   384351.289 3770219.947 127.88
LOCATION L0000713     VOLUME   384354.047 3770217.545 127.77
LOCATION L0000714     VOLUME   384356.806 3770215.143 127.58
LOCATION L0000715     VOLUME   384359.565 3770212.742 127.28
LOCATION L0000716     VOLUME   384362.323 3770210.340 126.94
LOCATION L0000717     VOLUME   384365.082 3770207.938 126.88
LOCATION L0000718     VOLUME   384367.841 3770205.537 126.84
LOCATION L0000719     VOLUME   384370.599 3770203.135 126.81
LOCATION L0000720     VOLUME   384373.358 3770200.734 126.78
LOCATION L0000721     VOLUME   384376.117 3770198.332 126.74
LOCATION L0000722     VOLUME   384378.875 3770195.930 126.71
LOCATION L0000723     VOLUME   384381.634 3770193.529 126.68
LOCATION L0000724     VOLUME   384384.392 3770191.127 126.83
LOCATION L0000725     VOLUME   384387.151 3770188.725 126.94
LOCATION L0000726     VOLUME   384389.910 3770186.324 126.95
LOCATION L0000727     VOLUME   384392.668 3770183.922 126.88
LOCATION L0000728     VOLUME   384395.427 3770181.520 126.71
LOCATION L0000729     VOLUME   384398.186 3770179.119 126.46
LOCATION L0000730     VOLUME   384400.944 3770176.717 126.42
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LOCATION L0000731     VOLUME   384403.703 3770174.315 126.39
LOCATION L0000732     VOLUME   384406.462 3770171.914 126.33
LOCATION L0000733     VOLUME   384409.220 3770169.512 126.45
LOCATION L0000734     VOLUME   384411.979 3770167.110 126.64
LOCATION L0000735     VOLUME   384414.738 3770164.709 126.76
LOCATION L0000736     VOLUME   384417.496 3770162.307 126.80
LOCATION L0000737     VOLUME   384420.255 3770159.906 126.79
LOCATION L0000738     VOLUME   384423.014 3770157.504 126.70
LOCATION L0000739     VOLUME   384425.772 3770155.102 126.54
LOCATION L0000740     VOLUME   384428.531 3770152.701 126.32
LOCATION L0000741     VOLUME   384431.289 3770150.299 126.03
LOCATION L0000742     VOLUME   384434.048 3770147.897 125.70
LOCATION L0000743     VOLUME   384436.807 3770145.496 125.66
LOCATION L0000744     VOLUME   384439.565 3770143.094 125.64
LOCATION L0000745     VOLUME   384442.324 3770140.692 125.59
LOCATION L0000746     VOLUME   384445.083 3770138.291 125.54
LOCATION L0000747     VOLUME   384447.841 3770135.889 125.46
LOCATION L0000748     VOLUME   384450.600 3770133.487 125.37
LOCATION L0000749     VOLUME   384453.359 3770131.086 125.27
LOCATION L0000750     VOLUME   384456.117 3770128.684 125.14
LOCATION L0000751     VOLUME   384458.876 3770126.282 125.01
LOCATION L0000752     VOLUME   384461.635 3770123.881 124.88
LOCATION L0000753     VOLUME   384464.393 3770121.479 124.70
LOCATION L0000754     VOLUME   384467.152 3770119.078 124.50
LOCATION L0000755     VOLUME   384469.911 3770116.676 124.26
LOCATION L0000756     VOLUME   384472.669 3770114.274 124.11
LOCATION L0000757     VOLUME   384475.428 3770111.873 123.99
LOCATION L0000758     VOLUME   384478.186 3770109.471 123.87
LOCATION L0000759     VOLUME   384480.945 3770107.069 123.75
LOCATION L0000760     VOLUME   384483.704 3770104.668 123.63
LOCATION L0000761     VOLUME   384486.462 3770102.266 123.47
LOCATION L0000762     VOLUME   384489.221 3770099.864 123.32
LOCATION L0000763     VOLUME   384491.980 3770097.463 123.17
LOCATION L0000764     VOLUME   384494.738 3770095.061 123.03
LOCATION L0000765     VOLUME   384497.497 3770092.659 122.90
LOCATION L0000766     VOLUME   384500.256 3770090.258 122.77
LOCATION L0000767     VOLUME   384503.014 3770087.856 122.65
LOCATION L0000768     VOLUME   384505.773 3770085.455 122.54
LOCATION L0000769     VOLUME   384508.532 3770083.053 122.40
LOCATION L0000770     VOLUME   384511.290 3770080.651 122.25
LOCATION L0000771     VOLUME   384514.049 3770078.250 122.10
LOCATION L0000772     VOLUME   384516.808 3770075.848 121.95
LOCATION L0000773     VOLUME   384519.566 3770073.446 121.80
LOCATION L0000774     VOLUME   384522.325 3770071.045 121.66
LOCATION L0000775     VOLUME   384525.083 3770068.643 121.51
LOCATION L0000776     VOLUME   384527.842 3770066.241 121.38
LOCATION L0000777     VOLUME   384530.601 3770063.840 121.24
LOCATION L0000778     VOLUME   384533.359 3770061.438 121.11
LOCATION L0000779     VOLUME   384536.118 3770059.036 120.94
LOCATION L0000780     VOLUME   384538.877 3770056.635 120.80
LOCATION L0000781     VOLUME   384541.635 3770054.233 120.71
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   LOCATION L0000782     VOLUME   384544.394 3770051.831 120.58
   LOCATION L0000783     VOLUME   384547.153 3770049.430 120.44
   LOCATION L0000784     VOLUME   384549.911 3770047.028 120.30
   LOCATION L0000785     VOLUME   384552.670 3770044.627 120.16
   LOCATION L0000786     VOLUME   384555.429 3770042.225 120.03
   LOCATION L0000787     VOLUME   384558.187 3770039.823 119.90
   LOCATION L0000788     VOLUME   384560.946 3770037.422 119.69
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC EB 101 FWY
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000963
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 384249.720, 3770285.205, 128.88, 0.00, 1.70
** 384550.628, 3770024.888, 119.45, 0.00, 1.70
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   LOCATION L0000789     VOLUME   384251.103 3770284.008 126.36
   LOCATION L0000790     VOLUME   384253.869 3770281.615 125.93
   LOCATION L0000791     VOLUME   384256.635 3770279.222 125.75
   LOCATION L0000792     VOLUME   384259.401 3770276.829 125.74
   LOCATION L0000793     VOLUME   384262.168 3770274.436 125.70
   LOCATION L0000794     VOLUME   384264.934 3770272.043 125.79
   LOCATION L0000795     VOLUME   384267.700 3770269.650 126.12
   LOCATION L0000796     VOLUME   384270.466 3770267.257 126.41
   LOCATION L0000797     VOLUME   384273.232 3770264.864 126.67
   LOCATION L0000798     VOLUME   384275.998 3770262.471 126.89
   LOCATION L0000799     VOLUME   384278.764 3770260.078 127.07
   LOCATION L0000800     VOLUME   384281.531 3770257.685 127.20
   LOCATION L0000801     VOLUME   384284.297 3770255.292 127.27
   LOCATION L0000802     VOLUME   384287.063 3770252.899 127.29
   LOCATION L0000803     VOLUME   384289.829 3770250.506 127.25
   LOCATION L0000804     VOLUME   384292.595 3770248.113 127.16
   LOCATION L0000805     VOLUME   384295.361 3770245.720 127.02
   LOCATION L0000806     VOLUME   384298.127 3770243.327 126.83
   LOCATION L0000807     VOLUME   384300.894 3770240.934 126.63
   LOCATION L0000808     VOLUME   384303.660 3770238.541 126.55
   LOCATION L0000809     VOLUME   384306.426 3770236.148 126.57
   LOCATION L0000810     VOLUME   384309.192 3770233.755 126.76
   LOCATION L0000811     VOLUME   384311.958 3770231.362 126.89
   LOCATION L0000812     VOLUME   384314.724 3770228.969 126.98
   LOCATION L0000813     VOLUME   384317.491 3770226.576 127.01
   LOCATION L0000814     VOLUME   384320.257 3770224.183 127.00
   LOCATION L0000815     VOLUME   384323.023 3770221.790 126.93
   LOCATION L0000816     VOLUME   384325.789 3770219.397 126.81
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LOCATION L0000817     VOLUME   384328.555 3770217.004 126.65
LOCATION L0000818     VOLUME   384331.321 3770214.611 126.46
LOCATION L0000819     VOLUME   384334.087 3770212.218 126.49
LOCATION L0000820     VOLUME   384336.854 3770209.825 126.50
LOCATION L0000821     VOLUME   384339.620 3770207.432 126.60
LOCATION L0000822     VOLUME   384342.386 3770205.039 126.67
LOCATION L0000823     VOLUME   384345.152 3770202.646 126.72
LOCATION L0000824     VOLUME   384347.918 3770200.253 126.73
LOCATION L0000825     VOLUME   384350.684 3770197.860 126.72
LOCATION L0000826     VOLUME   384353.450 3770195.467 126.67
LOCATION L0000827     VOLUME   384356.217 3770193.074 126.60
LOCATION L0000828     VOLUME   384358.983 3770190.681 126.56
LOCATION L0000829     VOLUME   384361.749 3770188.288 126.53
LOCATION L0000830     VOLUME   384364.515 3770185.895 126.49
LOCATION L0000831     VOLUME   384367.281 3770183.502 126.46
LOCATION L0000832     VOLUME   384370.047 3770181.109 126.43
LOCATION L0000833     VOLUME   384372.813 3770178.716 126.41
LOCATION L0000834     VOLUME   384375.580 3770176.323 126.48
LOCATION L0000835     VOLUME   384378.346 3770173.930 126.57
LOCATION L0000836     VOLUME   384381.112 3770171.537 126.68
LOCATION L0000837     VOLUME   384383.878 3770169.144 126.73
LOCATION L0000838     VOLUME   384386.644 3770166.751 126.74
LOCATION L0000839     VOLUME   384389.410 3770164.358 126.71
LOCATION L0000840     VOLUME   384392.177 3770161.965 126.67
LOCATION L0000841     VOLUME   384394.943 3770159.572 126.59
LOCATION L0000842     VOLUME   384397.709 3770157.179 126.49
LOCATION L0000843     VOLUME   384400.475 3770154.786 126.36
LOCATION L0000844     VOLUME   384403.241 3770152.393 126.21
LOCATION L0000845     VOLUME   384406.007 3770150.000 126.03
LOCATION L0000846     VOLUME   384408.773 3770147.607 125.91
LOCATION L0000847     VOLUME   384411.540 3770145.214 125.89
LOCATION L0000848     VOLUME   384414.306 3770142.821 125.86
LOCATION L0000849     VOLUME   384417.072 3770140.428 125.81
LOCATION L0000850     VOLUME   384419.838 3770138.035 125.74
LOCATION L0000851     VOLUME   384422.604 3770135.642 125.66
LOCATION L0000852     VOLUME   384425.370 3770133.249 125.56
LOCATION L0000853     VOLUME   384428.136 3770130.856 125.45
LOCATION L0000854     VOLUME   384430.903 3770128.463 125.32
LOCATION L0000855     VOLUME   384433.669 3770126.070 125.21
LOCATION L0000856     VOLUME   384436.435 3770123.677 125.13
LOCATION L0000857     VOLUME   384439.201 3770121.284 125.03
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LOCATION L0000859     VOLUME   384444.733 3770116.498 124.77
LOCATION L0000860     VOLUME   384447.499 3770114.105 124.60
LOCATION L0000861     VOLUME   384450.266 3770111.712 124.45
LOCATION L0000862     VOLUME   384453.032 3770109.319 124.34
LOCATION L0000863     VOLUME   384455.798 3770106.926 124.25
LOCATION L0000864     VOLUME   384458.564 3770104.533 124.17
LOCATION L0000865     VOLUME   384461.330 3770102.140 124.04
LOCATION L0000866     VOLUME   384464.096 3770099.747 123.92
LOCATION L0000867     VOLUME   384466.863 3770097.354 123.81
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   LOCATION L0000868     VOLUME   384469.629 3770094.961 123.69
   LOCATION L0000869     VOLUME   384472.395 3770092.568 123.57
   LOCATION L0000870     VOLUME   384475.161 3770090.175 123.46
   LOCATION L0000871     VOLUME   384477.927 3770087.782 123.35
   LOCATION L0000872     VOLUME   384480.693 3770085.389 123.23
   LOCATION L0000873     VOLUME   384483.459 3770082.996 122.83
   LOCATION L0000874     VOLUME   384486.226 3770080.603 122.47
   LOCATION L0000875     VOLUME   384488.992 3770078.210 122.17
   LOCATION L0000876     VOLUME   384491.758 3770075.817 121.94
   LOCATION L0000877     VOLUME   384494.524 3770073.424 121.76
   LOCATION L0000878     VOLUME   384497.290 3770071.031 121.65
   LOCATION L0000879     VOLUME   384500.056 3770068.638 121.60
   LOCATION L0000880     VOLUME   384502.822 3770066.245 121.62
   LOCATION L0000881     VOLUME   384505.589 3770063.852 121.69
   LOCATION L0000882     VOLUME   384508.355 3770061.459 121.83
   LOCATION L0000883     VOLUME   384511.121 3770059.066 121.73
   LOCATION L0000884     VOLUME   384513.887 3770056.673 121.59
   LOCATION L0000885     VOLUME   384516.653 3770054.280 121.45
   LOCATION L0000886     VOLUME   384519.419 3770051.887 121.05
   LOCATION L0000887     VOLUME   384522.185 3770049.494 120.73
   LOCATION L0000888     VOLUME   384524.952 3770047.101 120.52
   LOCATION L0000889     VOLUME   384527.718 3770044.708 120.42
   LOCATION L0000890     VOLUME   384530.484 3770042.315 120.43
   LOCATION L0000891     VOLUME   384533.250 3770039.922 120.54
   LOCATION L0000892     VOLUME   384536.016 3770037.529 120.49
   LOCATION L0000893     VOLUME   384538.782 3770035.136 120.35
   LOCATION L0000894     VOLUME   384541.549 3770032.743 120.22
   LOCATION L0000895     VOLUME   384544.315 3770030.350 120.09
   LOCATION L0000896     VOLUME   384547.081 3770027.957 119.96
   LOCATION L0000897     VOLUME   384549.847 3770025.564 119.84
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000680     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000681     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000682     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000683     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000684     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000685     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000686     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000687     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000688     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000689     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000690     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000691     0.0000008835      0.00      1.70      0.85
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   SRCPARAM L0000694     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000695     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000696     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000697     0.0000008835      0.00      1.70      0.85
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SRCPARAM L0000748     0.0000008835      0.00      1.70      0.85
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   SRCPARAM L0000786     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000787     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000788     0.0000008835      0.00      1.70      0.85
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000789     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000790     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000791     0.0000008835      0.00      1.70      0.85
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   SRCPARAM L0000793     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000794     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000795     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000796     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000797     0.0000008835      0.00      1.70      0.85
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SRCPARAM L0000848     0.0000008835      0.00      1.70      0.85
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   SRCPARAM L0000861     0.0000008835      0.00      1.70      0.85
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   SRCPARAM L0000871     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000872     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000873     0.0000008835      0.00      1.70      0.85
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   SRCPARAM L0000875     0.0000008835      0.00      1.70      0.85
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   SRCPARAM L0000878     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000879     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000880     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000881     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000882     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000883     0.0000008835      0.00      1.70      0.85
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   SRCPARAM L0000887     0.0000008835      0.00      1.70      0.85
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   SRCPARAM L0000896     0.0000008835      0.00      1.70      0.85
   SRCPARAM L0000897     0.0000008835      0.00      1.70      0.85
** ------------------------------------------------------------------
   URBANSRC ALL
```

```
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "7427 Firmin Court 2 yr.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\CELA_V9_ADJU\CELA_v9.SFC"
   PROFFILE "E:\New MET data\CELA_V9_ADJU\CELA_v9.PFL"
   SURFDATA 93134 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 87.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "7427 FIRMIN COURT 2 YR.AD\AN00GALL.PLT" 31
   SUMMFILE "7427 Firmin Court 2 yr.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***
```

```
   ********   WARNING MESSAGES   ********
ME W186     535       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     535       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

**********************************
*** SETUP Finishes Successfully ***
**********************************


*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court 2 yr\7427 Firmin Court 2 yr.i ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2yr                                               ***        09:33:50
                                                                                                                    PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                         ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for   218 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates ANNUAL Averages Only

**This Run Includes:    218 Source(s);       1 Source Group(s); and     445 Receptor(s)

              with:      0 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
```

```
               and:    218 VOLUME source(s)
               and:      0 AREA type source(s)
               and:      0 LINE source(s)
               and:      0 OPENPIT source(s)
               and:      0 BUOYANT LINE source(s) with      0 line(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of ANNUAL Averages by Receptor
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    87.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                            ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   7427 Firmin Court 2 yr.err
**File for Summary of Results:   7427 Firmin Court 2 yr.sum

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court 2 yr\7427 Firmin Court 2 yr.i ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2yr                                                ***        09:33:50
                                                                                                                     PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.               (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0000680         0   0.88350E-06  384263.0 3770296.8   127.1     0.00     1.70     0.85     YES
L0000681         0   0.88350E-06  384265.8 3770294.4   127.2     0.00     1.70     0.85     YES
L0000682         0   0.88350E-06  384268.5 3770292.0   127.3     0.00     1.70     0.85     YES
L0000683         0   0.88350E-06  384271.3 3770289.6   127.3     0.00     1.70     0.85     YES
L0000684         0   0.88350E-06  384274.0 3770287.2   127.3     0.00     1.70     0.85     YES
L0000685         0   0.88350E-06  384276.8 3770284.8   127.2     0.00     1.70     0.85     YES
```

L0000686	0	0.88350E-06	384279.6	3770282.4	127.1	0.00	1.70	0.85	YES
L0000687	0	0.88350E-06	384282.3	3770280.0	127.0	0.00	1.70	0.85	YES
L0000688	0	0.88350E-06	384285.1	3770277.6	126.9	0.00	1.70	0.85	YES
L0000689	0	0.88350E-06	384287.8	3770275.2	126.7	0.00	1.70	0.85	YES
L0000690	0	0.88350E-06	384290.6	3770272.8	126.5	0.00	1.70	0.85	YES
L0000691	0	0.88350E-06	384293.4	3770270.4	126.6	0.00	1.70	0.85	YES
L0000692	0	0.88350E-06	384296.1	3770268.0	126.7	0.00	1.70	0.85	YES
L0000693	0	0.88350E-06	384298.9	3770265.6	126.7	0.00	1.70	0.85	YES
L0000694	0	0.88350E-06	384301.6	3770263.2	126.7	0.00	1.70	0.85	YES
L0000695	0	0.88350E-06	384304.4	3770260.8	126.7	0.00	1.70	0.85	YES
L0000696	0	0.88350E-06	384307.1	3770258.4	126.7	0.00	1.70	0.85	YES
L0000697	0	0.88350E-06	384309.9	3770256.0	127.0	0.00	1.70	0.85	YES
L0000698	0	0.88350E-06	384312.7	3770253.6	127.2	0.00	1.70	0.85	YES
L0000699	0	0.88350E-06	384315.4	3770251.2	127.3	0.00	1.70	0.85	YES
L0000700	0	0.88350E-06	384318.2	3770248.8	127.3	0.00	1.70	0.85	YES
L0000701	0	0.88350E-06	384320.9	3770246.4	127.3	0.00	1.70	0.85	YES
L0000702	0	0.88350E-06	384323.7	3770244.0	127.1	0.00	1.70	0.85	YES
L0000703	0	0.88350E-06	384326.5	3770241.6	126.9	0.00	1.70	0.85	YES
L0000704	0	0.88350E-06	384329.2	3770239.2	126.9	0.00	1.70	0.85	YES
L0000705	0	0.88350E-06	384332.0	3770236.8	127.0	0.00	1.70	0.85	YES
L0000706	0	0.88350E-06	384334.7	3770234.4	127.3	0.00	1.70	0.85	YES
L0000707	0	0.88350E-06	384337.5	3770232.0	127.5	0.00	1.70	0.85	YES
L0000708	0	0.88350E-06	384340.3	3770229.6	127.7	0.00	1.70	0.85	YES
L0000709	0	0.88350E-06	384343.0	3770227.2	127.9	0.00	1.70	0.85	YES
L0000710	0	0.88350E-06	384345.8	3770224.8	127.9	0.00	1.70	0.85	YES
L0000711	0	0.88350E-06	384348.5	3770222.3	127.9	0.00	1.70	0.85	YES
L0000712	0	0.88350E-06	384351.3	3770219.9	127.9	0.00	1.70	0.85	YES
L0000713	0	0.88350E-06	384354.0	3770217.5	127.8	0.00	1.70	0.85	YES
L0000714	0	0.88350E-06	384356.8	3770215.1	127.6	0.00	1.70	0.85	YES
L0000715	0	0.88350E-06	384359.6	3770212.7	127.3	0.00	1.70	0.85	YES
L0000716	0	0.88350E-06	384362.3	3770210.3	126.9	0.00	1.70	0.85	YES
L0000717	0	0.88350E-06	384365.1	3770207.9	126.9	0.00	1.70	0.85	YES
L0000718	0	0.88350E-06	384367.8	3770205.5	126.8	0.00	1.70	0.85	YES
L0000719	0	0.88350E-06	384370.6	3770203.1	126.8	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000720	0	0.88350E-06	384373.4	3770200.7	126.8	0.00	1.70	0.85	YES	
L0000721	0	0.88350E-06	384376.1	3770198.3	126.7	0.00	1.70	0.85	YES	
L0000722	0	0.88350E-06	384378.9	3770195.9	126.7	0.00	1.70	0.85	YES	

L0000723	0	0.88350E-06	384381.6	3770193.5	126.7	0.00	1.70	0.85	YES
L0000724	0	0.88350E-06	384384.4	3770191.1	126.8	0.00	1.70	0.85	YES
L0000725	0	0.88350E-06	384387.2	3770188.7	126.9	0.00	1.70	0.85	YES
L0000726	0	0.88350E-06	384389.9	3770186.3	127.0	0.00	1.70	0.85	YES
L0000727	0	0.88350E-06	384392.7	3770183.9	126.9	0.00	1.70	0.85	YES
L0000728	0	0.88350E-06	384395.4	3770181.5	126.7	0.00	1.70	0.85	YES
L0000729	0	0.88350E-06	384398.2	3770179.1	126.5	0.00	1.70	0.85	YES
L0000730	0	0.88350E-06	384400.9	3770176.7	126.4	0.00	1.70	0.85	YES
L0000731	0	0.88350E-06	384403.7	3770174.3	126.4	0.00	1.70	0.85	YES
L0000732	0	0.88350E-06	384406.5	3770171.9	126.3	0.00	1.70	0.85	YES
L0000733	0	0.88350E-06	384409.2	3770169.5	126.5	0.00	1.70	0.85	YES
L0000734	0	0.88350E-06	384412.0	3770167.1	126.6	0.00	1.70	0.85	YES
L0000735	0	0.88350E-06	384414.7	3770164.7	126.8	0.00	1.70	0.85	YES
L0000736	0	0.88350E-06	384417.5	3770162.3	126.8	0.00	1.70	0.85	YES
L0000737	0	0.88350E-06	384420.3	3770159.9	126.8	0.00	1.70	0.85	YES
L0000738	0	0.88350E-06	384423.0	3770157.5	126.7	0.00	1.70	0.85	YES
L0000739	0	0.88350E-06	384425.8	3770155.1	126.5	0.00	1.70	0.85	YES
L0000740	0	0.88350E-06	384428.5	3770152.7	126.3	0.00	1.70	0.85	YES
L0000741	0	0.88350E-06	384431.3	3770150.3	126.0	0.00	1.70	0.85	YES
L0000742	0	0.88350E-06	384434.0	3770147.9	125.7	0.00	1.70	0.85	YES
L0000743	0	0.88350E-06	384436.8	3770145.5	125.7	0.00	1.70	0.85	YES
L0000744	0	0.88350E-06	384439.6	3770143.1	125.6	0.00	1.70	0.85	YES
L0000745	0	0.88350E-06	384442.3	3770140.7	125.6	0.00	1.70	0.85	YES
L0000746	0	0.88350E-06	384445.1	3770138.3	125.5	0.00	1.70	0.85	YES
L0000747	0	0.88350E-06	384447.8	3770135.9	125.5	0.00	1.70	0.85	YES
L0000748	0	0.88350E-06	384450.6	3770133.5	125.4	0.00	1.70	0.85	YES
L0000749	0	0.88350E-06	384453.4	3770131.1	125.3	0.00	1.70	0.85	YES
L0000750	0	0.88350E-06	384456.1	3770128.7	125.1	0.00	1.70	0.85	YES
L0000751	0	0.88350E-06	384458.9	3770126.3	125.0	0.00	1.70	0.85	YES
L0000752	0	0.88350E-06	384461.6	3770123.9	124.9	0.00	1.70	0.85	YES
L0000753	0	0.88350E-06	384464.4	3770121.5	124.7	0.00	1.70	0.85	YES
L0000754	0	0.88350E-06	384467.2	3770119.1	124.5	0.00	1.70	0.85	YES
L0000755	0	0.88350E-06	384469.9	3770116.7	124.3	0.00	1.70	0.85	YES
L0000756	0	0.88350E-06	384472.7	3770114.3	124.1	0.00	1.70	0.85	YES
L0000757	0	0.88350E-06	384475.4	3770111.9	124.0	0.00	1.70	0.85	YES
L0000758	0	0.88350E-06	384478.2	3770109.5	123.9	0.00	1.70	0.85	YES
L0000759	0	0.88350E-06	384480.9	3770107.1	123.8	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0000760	0	0.88350E-06	384483.7	3770104.7	123.6	0.00	1.70	0.85	YES
L0000761	0	0.88350E-06	384486.5	3770102.3	123.5	0.00	1.70	0.85	YES
L0000762	0	0.88350E-06	384489.2	3770099.9	123.3	0.00	1.70	0.85	YES
L0000763	0	0.88350E-06	384492.0	3770097.5	123.2	0.00	1.70	0.85	YES
L0000764	0	0.88350E-06	384494.7	3770095.1	123.0	0.00	1.70	0.85	YES
L0000765	0	0.88350E-06	384497.5	3770092.7	122.9	0.00	1.70	0.85	YES
L0000766	0	0.88350E-06	384500.3	3770090.3	122.8	0.00	1.70	0.85	YES
L0000767	0	0.88350E-06	384503.0	3770087.9	122.6	0.00	1.70	0.85	YES
L0000768	0	0.88350E-06	384505.8	3770085.5	122.5	0.00	1.70	0.85	YES
L0000769	0	0.88350E-06	384508.5	3770083.1	122.4	0.00	1.70	0.85	YES
L0000770	0	0.88350E-06	384511.3	3770080.7	122.2	0.00	1.70	0.85	YES
L0000771	0	0.88350E-06	384514.0	3770078.2	122.1	0.00	1.70	0.85	YES
L0000772	0	0.88350E-06	384516.8	3770075.8	122.0	0.00	1.70	0.85	YES
L0000773	0	0.88350E-06	384519.6	3770073.4	121.8	0.00	1.70	0.85	YES
L0000774	0	0.88350E-06	384522.3	3770071.0	121.7	0.00	1.70	0.85	YES
L0000775	0	0.88350E-06	384525.1	3770068.6	121.5	0.00	1.70	0.85	YES
L0000776	0	0.88350E-06	384527.8	3770066.2	121.4	0.00	1.70	0.85	YES
L0000777	0	0.88350E-06	384530.6	3770063.8	121.2	0.00	1.70	0.85	YES
L0000778	0	0.88350E-06	384533.4	3770061.4	121.1	0.00	1.70	0.85	YES
L0000779	0	0.88350E-06	384536.1	3770059.0	120.9	0.00	1.70	0.85	YES
L0000780	0	0.88350E-06	384538.9	3770056.6	120.8	0.00	1.70	0.85	YES
L0000781	0	0.88350E-06	384541.6	3770054.2	120.7	0.00	1.70	0.85	YES
L0000782	0	0.88350E-06	384544.4	3770051.8	120.6	0.00	1.70	0.85	YES
L0000783	0	0.88350E-06	384547.2	3770049.4	120.4	0.00	1.70	0.85	YES
L0000784	0	0.88350E-06	384549.9	3770047.0	120.3	0.00	1.70	0.85	YES
L0000785	0	0.88350E-06	384552.7	3770044.6	120.2	0.00	1.70	0.85	YES
L0000786	0	0.88350E-06	384555.4	3770042.2	120.0	0.00	1.70	0.85	YES
L0000787	0	0.88350E-06	384558.2	3770039.8	119.9	0.00	1.70	0.85	YES
L0000788	0	0.88350E-06	384560.9	3770037.4	119.7	0.00	1.70	0.85	YES
L0000789	0	0.88350E-06	384251.1	3770284.0	126.4	0.00	1.70	0.85	YES
L0000790	0	0.88350E-06	384253.9	3770281.6	125.9	0.00	1.70	0.85	YES
L0000791	0	0.88350E-06	384256.6	3770279.2	125.8	0.00	1.70	0.85	YES
L0000792	0	0.88350E-06	384259.4	3770276.8	125.7	0.00	1.70	0.85	YES
L0000793	0	0.88350E-06	384262.2	3770274.4	125.7	0.00	1.70	0.85	YES
L0000794	0	0.88350E-06	384264.9	3770272.0	125.8	0.00	1.70	0.85	YES
L0000795	0	0.88350E-06	384267.7	3770269.6	126.1	0.00	1.70	0.85	YES
L0000796	0	0.88350E-06	384270.5	3770267.3	126.4	0.00	1.70	0.85	YES
L0000797	0	0.88350E-06	384273.2	3770264.9	126.7	0.00	1.70	0.85	YES
L0000798	0	0.88350E-06	384276.0	3770262.5	126.9	0.00	1.70	0.85	YES
L0000799	0	0.88350E-06	384278.8	3770260.1	127.1	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY

ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0000800	0	0.88350E-06	384281.5	3770257.7	127.2	0.00	1.70	0.85	YES
L0000801	0	0.88350E-06	384284.3	3770255.3	127.3	0.00	1.70	0.85	YES
L0000802	0	0.88350E-06	384287.1	3770252.9	127.3	0.00	1.70	0.85	YES
L0000803	0	0.88350E-06	384289.8	3770250.5	127.2	0.00	1.70	0.85	YES
L0000804	0	0.88350E-06	384292.6	3770248.1	127.2	0.00	1.70	0.85	YES
L0000805	0	0.88350E-06	384295.4	3770245.7	127.0	0.00	1.70	0.85	YES
L0000806	0	0.88350E-06	384298.1	3770243.3	126.8	0.00	1.70	0.85	YES
L0000807	0	0.88350E-06	384300.9	3770240.9	126.6	0.00	1.70	0.85	YES
L0000808	0	0.88350E-06	384303.7	3770238.5	126.5	0.00	1.70	0.85	YES
L0000809	0	0.88350E-06	384306.4	3770236.1	126.6	0.00	1.70	0.85	YES
L0000810	0	0.88350E-06	384309.2	3770233.8	126.8	0.00	1.70	0.85	YES
L0000811	0	0.88350E-06	384312.0	3770231.4	126.9	0.00	1.70	0.85	YES
L0000812	0	0.88350E-06	384314.7	3770229.0	127.0	0.00	1.70	0.85	YES
L0000813	0	0.88350E-06	384317.5	3770226.6	127.0	0.00	1.70	0.85	YES
L0000814	0	0.88350E-06	384320.3	3770224.2	127.0	0.00	1.70	0.85	YES
L0000815	0	0.88350E-06	384323.0	3770221.8	126.9	0.00	1.70	0.85	YES
L0000816	0	0.88350E-06	384325.8	3770219.4	126.8	0.00	1.70	0.85	YES
L0000817	0	0.88350E-06	384328.6	3770217.0	126.6	0.00	1.70	0.85	YES
L0000818	0	0.88350E-06	384331.3	3770214.6	126.5	0.00	1.70	0.85	YES
L0000819	0	0.88350E-06	384334.1	3770212.2	126.5	0.00	1.70	0.85	YES
L0000820	0	0.88350E-06	384336.9	3770209.8	126.5	0.00	1.70	0.85	YES
L0000821	0	0.88350E-06	384339.6	3770207.4	126.6	0.00	1.70	0.85	YES
L0000822	0	0.88350E-06	384342.4	3770205.0	126.7	0.00	1.70	0.85	YES
L0000823	0	0.88350E-06	384345.2	3770202.6	126.7	0.00	1.70	0.85	YES
L0000824	0	0.88350E-06	384347.9	3770200.3	126.7	0.00	1.70	0.85	YES
L0000825	0	0.88350E-06	384350.7	3770197.9	126.7	0.00	1.70	0.85	YES
L0000826	0	0.88350E-06	384353.5	3770195.5	126.7	0.00	1.70	0.85	YES
L0000827	0	0.88350E-06	384356.2	3770193.1	126.6	0.00	1.70	0.85	YES
L0000828	0	0.88350E-06	384359.0	3770190.7	126.6	0.00	1.70	0.85	YES
L0000829	0	0.88350E-06	384361.7	3770188.3	126.5	0.00	1.70	0.85	YES
L0000830	0	0.88350E-06	384364.5	3770185.9	126.5	0.00	1.70	0.85	YES
L0000831	0	0.88350E-06	384367.3	3770183.5	126.5	0.00	1.70	0.85	YES
L0000832	0	0.88350E-06	384370.0	3770181.1	126.4	0.00	1.70	0.85	YES
L0000833	0	0.88350E-06	384372.8	3770178.7	126.4	0.00	1.70	0.85	YES
L0000834	0	0.88350E-06	384375.6	3770176.3	126.5	0.00	1.70	0.85	YES
L0000835	0	0.88350E-06	384378.3	3770173.9	126.6	0.00	1.70	0.85	YES
L0000836	0	0.88350E-06	384381.1	3770171.5	126.7	0.00	1.70	0.85	YES
L0000837	0	0.88350E-06	384383.9	3770169.1	126.7	0.00	1.70	0.85	YES
L0000838	0	0.88350E-06	384386.6	3770166.8	126.7	0.00	1.70	0.85	YES
L0000839	0	0.88350E-06	384389.4	3770164.4	126.7	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000840	0	0.88350E-06	384392.2	3770162.0	126.7	0.00	1.70	0.85	YES	
L0000841	0	0.88350E-06	384394.9	3770159.6	126.6	0.00	1.70	0.85	YES	
L0000842	0	0.88350E-06	384397.7	3770157.2	126.5	0.00	1.70	0.85	YES	
L0000843	0	0.88350E-06	384400.5	3770154.8	126.4	0.00	1.70	0.85	YES	
L0000844	0	0.88350E-06	384403.2	3770152.4	126.2	0.00	1.70	0.85	YES	
L0000845	0	0.88350E-06	384406.0	3770150.0	126.0	0.00	1.70	0.85	YES	
L0000846	0	0.88350E-06	384408.8	3770147.6	125.9	0.00	1.70	0.85	YES	
L0000847	0	0.88350E-06	384411.5	3770145.2	125.9	0.00	1.70	0.85	YES	
L0000848	0	0.88350E-06	384414.3	3770142.8	125.9	0.00	1.70	0.85	YES	
L0000849	0	0.88350E-06	384417.1	3770140.4	125.8	0.00	1.70	0.85	YES	
L0000850	0	0.88350E-06	384419.8	3770138.0	125.7	0.00	1.70	0.85	YES	
L0000851	0	0.88350E-06	384422.6	3770135.6	125.7	0.00	1.70	0.85	YES	
L0000852	0	0.88350E-06	384425.4	3770133.2	125.6	0.00	1.70	0.85	YES	
L0000853	0	0.88350E-06	384428.1	3770130.9	125.5	0.00	1.70	0.85	YES	
L0000854	0	0.88350E-06	384430.9	3770128.5	125.3	0.00	1.70	0.85	YES	
L0000855	0	0.88350E-06	384433.7	3770126.1	125.2	0.00	1.70	0.85	YES	
L0000856	0	0.88350E-06	384436.4	3770123.7	125.1	0.00	1.70	0.85	YES	
L0000857	0	0.88350E-06	384439.2	3770121.3	125.0	0.00	1.70	0.85	YES	
L0000858	0	0.88350E-06	384442.0	3770118.9	124.9	0.00	1.70	0.85	YES	
L0000859	0	0.88350E-06	384444.7	3770116.5	124.8	0.00	1.70	0.85	YES	
L0000860	0	0.88350E-06	384447.5	3770114.1	124.6	0.00	1.70	0.85	YES	
L0000861	0	0.88350E-06	384450.3	3770111.7	124.5	0.00	1.70	0.85	YES	
L0000862	0	0.88350E-06	384453.0	3770109.3	124.3	0.00	1.70	0.85	YES	
L0000863	0	0.88350E-06	384455.8	3770106.9	124.2	0.00	1.70	0.85	YES	
L0000864	0	0.88350E-06	384458.6	3770104.5	124.2	0.00	1.70	0.85	YES	
L0000865	0	0.88350E-06	384461.3	3770102.1	124.0	0.00	1.70	0.85	YES	
L0000866	0	0.88350E-06	384464.1	3770099.7	123.9	0.00	1.70	0.85	YES	
L0000867	0	0.88350E-06	384466.9	3770097.4	123.8	0.00	1.70	0.85	YES	
L0000868	0	0.88350E-06	384469.6	3770095.0	123.7	0.00	1.70	0.85	YES	
L0000869	0	0.88350E-06	384472.4	3770092.6	123.6	0.00	1.70	0.85	YES	
L0000870	0	0.88350E-06	384475.2	3770090.2	123.5	0.00	1.70	0.85	YES	
L0000871	0	0.88350E-06	384477.9	3770087.8	123.3	0.00	1.70	0.85	YES	
L0000872	0	0.88350E-06	384480.7	3770085.4	123.2	0.00	1.70	0.85	YES	
L0000873	0	0.88350E-06	384483.5	3770083.0	122.8	0.00	1.70	0.85	YES	
L0000874	0	0.88350E-06	384486.2	3770080.6	122.5	0.00	1.70	0.85	YES	
L0000875	0	0.88350E-06	384489.0	3770078.2	122.2	0.00	1.70	0.85	YES	
L0000876	0	0.88350E-06	384491.8	3770075.8	121.9	0.00	1.70	0.85	YES	
L0000877	0	0.88350E-06	384494.5	3770073.4	121.8	0.00	1.70	0.85	YES	
L0000878	0	0.88350E-06	384497.3	3770071.0	121.6	0.00	1.70	0.85	YES	
L0000879	0	0.88350E-06	384500.1	3770068.6	121.6	0.00	1.70	0.85	YES	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000880	0	0.88350E-06	384502.8	3770066.2	121.6	0.00	1.70	0.85	YES	
L0000881	0	0.88350E-06	384505.6	3770063.9	121.7	0.00	1.70	0.85	YES	
L0000882	0	0.88350E-06	384508.4	3770061.5	121.8	0.00	1.70	0.85	YES	
L0000883	0	0.88350E-06	384511.1	3770059.1	121.7	0.00	1.70	0.85	YES	
L0000884	0	0.88350E-06	384513.9	3770056.7	121.6	0.00	1.70	0.85	YES	
L0000885	0	0.88350E-06	384516.7	3770054.3	121.5	0.00	1.70	0.85	YES	
L0000886	0	0.88350E-06	384519.4	3770051.9	121.0	0.00	1.70	0.85	YES	
L0000887	0	0.88350E-06	384522.2	3770049.5	120.7	0.00	1.70	0.85	YES	
L0000888	0	0.88350E-06	384525.0	3770047.1	120.5	0.00	1.70	0.85	YES	
L0000889	0	0.88350E-06	384527.7	3770044.7	120.4	0.00	1.70	0.85	YES	
L0000890	0	0.88350E-06	384530.5	3770042.3	120.4	0.00	1.70	0.85	YES	
L0000891	0	0.88350E-06	384533.2	3770039.9	120.5	0.00	1.70	0.85	YES	
L0000892	0	0.88350E-06	384536.0	3770037.5	120.5	0.00	1.70	0.85	YES	
L0000893	0	0.88350E-06	384538.8	3770035.1	120.3	0.00	1.70	0.85	YES	
L0000894	0	0.88350E-06	384541.5	3770032.7	120.2	0.00	1.70	0.85	YES	
L0000895	0	0.88350E-06	384544.3	3770030.3	120.1	0.00	1.70	0.85	YES	
L0000896	0	0.88350E-06	384547.1	3770028.0	120.0	0.00	1.70	0.85	YES	
L0000897	0	0.88350E-06	384549.8	3770025.6	119.8	0.00	1.70	0.85	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0000680 , L0000681 , L0000682 , L0000683 , L0000684 , L0000685 , L0000686 , L0000687 ,
	L0000688 , L0000689 , L0000690 , L0000691 , L0000692 , L0000693 , L0000694 , L0000695 ,
	L0000696 , L0000697 , L0000698 , L0000699 , L0000700 , L0000701 , L0000702 , L0000703 ,
	L0000704 , L0000705 , L0000706 , L0000707 , L0000708 , L0000709 , L0000710 , L0000711 ,
	L0000712 , L0000713 , L0000714 , L0000715 , L0000716 , L0000717 , L0000718 , L0000719 ,
	L0000720 , L0000721 , L0000722 , L0000723 , L0000724 , L0000725 , L0000726 , L0000727 ,

L0000728 , L0000729 , L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 ,

L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 ,

L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 ,

L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 ,

L0000760 , L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 ,

L0000768 , L0000769 , L0000770 , L0000771 , L0000772 , L0000773 , L0000774 , L0000775 ,

L0000776 , L0000777 , L0000778 , L0000779 , L0000780 , L0000781 , L0000782 , L0000783 ,

L0000784 , L0000785 , L0000786 , L0000787 , L0000788 , L0000789 , L0000790 , L0000791 ,

L0000792 , L0000793 , L0000794 , L0000795 , L0000796 , L0000797 , L0000798 , L0000799 ,

L0000800 , L0000801 , L0000802 , L0000803 , L0000804 , L0000805 , L0000806 , L0000807 ,

L0000808 , L0000809 , L0000810 , L0000811 , L0000812 , L0000813 , L0000814 , L0000815 ,

L0000816 , L0000817 , L0000818 , L0000819 , L0000820 , L0000821 , L0000822 , L0000823 ,

L0000824 , L0000825 , L0000826 , L0000827 , L0000828 , L0000829 , L0000830 , L0000831 ,

L0000832 , L0000833 , L0000834 , L0000835 , L0000836 , L0000837 , L0000838 , L0000839 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0000840 , L0000841 , L0000842 , L0000843 , L0000844 , L0000845 , L0000846 , L0000847 ,

L0000848 , L0000849 , L0000850 , L0000851 , L0000852 , L0000853 , L0000854 , L0000855 ,

L0000856 , L0000857 , L0000858 , L0000859 , L0000860 , L0000861 , L0000862 , L0000863 ,

L0000864 , L0000865 , L0000866 , L0000867 , L0000868 , L0000869 , L0000870 , L0000871 ,

L0000872 , L0000873 , L0000874 , L0000875 , L0000876 , L0000877 , L0000878 , L0000879 ,

L0000880 , L0000881 , L0000882 , L0000883 , L0000884 , L0000885 , L0000886 , L0000887 ,

L0000888 , L0000889 , L0000890 , L0000891 , L0000892 , L0000893 , L0000894 , L0000895 ,

L0000896 , L0000897 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	L0000680 , L0000681 , L0000682 , L0000683 , L0000684 , L0000685 , L0000686 , L0000687 ,
		L0000688 , L0000689 , L0000690 , L0000691 , L0000692 , L0000693 , L0000694 , L0000695 ,
		L0000696 , L0000697 , L0000698 , L0000699 , L0000700 , L0000701 , L0000702 , L0000703 ,
		L0000704 , L0000705 , L0000706 , L0000707 , L0000708 , L0000709 , L0000710 , L0000711 ,
		L0000712 , L0000713 , L0000714 , L0000715 , L0000716 , L0000717 , L0000718 , L0000719 ,
		L0000720 , L0000721 , L0000722 , L0000723 , L0000724 , L0000725 , L0000726 , L0000727 ,
		L0000728 , L0000729 , L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 ,
		L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 ,
		L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 ,
		L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 ,
		L0000760 , L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 ,
		L0000768 , L0000769 , L0000770 , L0000771 , L0000772 , L0000773 , L0000774 , L0000775 ,
		L0000776 , L0000777 , L0000778 , L0000779 , L0000780 , L0000781 , L0000782 , L0000783 ,
		L0000784 , L0000785 , L0000786 , L0000787 , L0000788 , L0000789 , L0000790 , L0000791 ,
		L0000792 , L0000793 , L0000794 , L0000795 , L0000796 , L0000797 , L0000798 , L0000799 ,
		L0000800 , L0000801 , L0000802 , L0000803 , L0000804 , L0000805 , L0000806 , L0000807 ,

L0000808 , L0000809 , L0000810 , L0000811 , L0000812 , L0000813 , L0000814 , L0000815 ,

L0000816 , L0000817 , L0000818 , L0000819 , L0000820 , L0000821 , L0000822 , L0000823 ,

L0000824 , L0000825 , L0000826 , L0000827 , L0000828 , L0000829 , L0000830 , L0000831 ,

L0000832 , L0000833 , L0000834 , L0000835 , L0000836 , L0000837 , L0000838 , L0000839 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0000840 , L0000841 , L0000842 , L0000843 , L0000844 , L0000845 , L0000846 , L0000847 ,

L0000848 , L0000849 , L0000850 , L0000851 , L0000852 , L0000853 , L0000854 , L0000855 ,

L0000856 , L0000857 , L0000858 , L0000859 , L0000860 , L0000861 , L0000862 , L0000863 ,

L0000864 , L0000865 , L0000866 , L0000867 , L0000868 , L0000869 , L0000870 , L0000871 ,

L0000872 , L0000873 , L0000874 , L0000875 , L0000876 , L0000877 , L0000878 , L0000879 ,

L0000880 , L0000881 , L0000882 , L0000883 , L0000884 , L0000885 , L0000886 , L0000887 ,

L0000888 , L0000889 , L0000890 , L0000891 , L0000892 , L0000893 , L0000894 , L0000895 ,

L0000896 , L0000897 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

384229.9, 384246.6, 384263.3, 384280.0, 384296.8, 384313.5, 384330.2, 384346.9, 384363.6, 384380.3,
384397.1, 384413.8, 384430.5, 384447.2, 384464.0, 384480.7, 384497.4, 384514.1, 384530.8, 384547.5,
384564.3,

*** Y-COORDINATES OF GRID ***
(METERS)

3769956.5, 3769973.8, 3769991.1, 3770008.4, 3770025.7, 3770043.0, 3770060.3, 3770077.6, 3770094.9, 3770112.2,
3770129.5, 3770146.8, 3770164.1, 3770181.4, 3770198.7, 3770216.0, 3770233.3, 3770250.6, 3770267.9, 3770285.2,
3770302.5,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384229.87	384246.59	384263.31	384280.03	384296.75	384313.47	384330.19	384346.91	384363.63
3770302.50	126.20	126.40	127.50	129.40	132.30	134.10	134.20	134.50	134.90
3770285.20	129.00	126.90	126.40	127.50	129.00	131.00	133.20	133.80	134.20
3770267.90	130.70	127.70	126.30	126.40	126.70	128.30	131.80	132.70	133.40
3770250.60	130.50	129.30	128.40	127.80	126.90	127.10	128.70	130.60	132.20
3770233.30	131.40	130.30	129.40	128.60	127.40	126.80	126.80	128.80	130.40
3770216.00	133.30	130.70	129.30	128.90	128.40	127.60	126.50	127.20	127.80
3770198.70	134.20	131.90	130.10	128.80	128.40	127.80	126.90	126.70	126.70
3770181.40	134.70	133.30	131.10	128.40	128.10	127.80	127.50	126.80	126.40
3770164.10	135.00	133.60	131.30	128.60	127.70	127.10	126.70	126.50	126.60
3770146.80	135.10	133.60	131.40	128.90	127.50	126.50	125.80	126.10	126.60
3770129.50	134.40	132.60	131.00	129.60	127.70	126.20	125.10	124.90	125.20
3770112.20	133.80	132.10	131.00	130.30	128.10	126.30	125.00	124.00	123.90
3770094.90	133.60	132.40	131.70	131.00	128.90	127.30	126.20	124.00	122.80
3770077.60	133.90	133.40	132.70	131.90	130.00	128.60	127.40	124.20	122.20
3770060.30	134.30	134.60	134.10	133.00	131.20	129.90	128.70	124.60	122.00
3770043.00	135.30	135.90	135.30	133.90	132.60	131.00	129.30	125.90	123.10
3770025.70	136.30	137.10	136.30	134.90	133.90	132.10	129.70	127.50	124.80
3770008.40	135.30	136.30	136.20	135.50	134.30	132.30	129.80	127.20	124.90
3769991.10	134.30	135.30	135.80	135.80	134.30	132.30	129.80	126.90	124.80
3769973.80	133.10	134.00	134.60	134.70	133.20	131.50	129.60	126.60	123.40
3769956.50	131.80	132.60	133.20	133.30	132.00	130.30	128.30	125.80	122.10

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	135.30	134.80	134.20	134.30	133.80	132.70	130.50	129.30	128.80
3770285.20	134.90	134.60	134.50	135.20	134.50	133.10	130.40	129.00	128.50
3770267.90	134.40	134.40	134.70	135.90	135.10	133.30	130.30	128.80	128.20
3770250.60	133.20	134.00	134.70	135.40	134.30	132.60	130.20	128.70	127.80
3770233.30	131.20	132.80	134.20	134.80	133.70	132.00	129.90	128.40	127.30
3770216.00	128.10	130.80	133.20	134.10	133.30	131.70	129.20	127.80	126.90
3770198.70	126.80	128.80	130.90	132.40	131.80	130.50	128.60	127.50	126.60
3770181.40	126.50	126.70	127.80	130.20	129.70	128.80	128.20	127.40	126.50
3770164.10	126.90	126.50	126.70	127.90	127.70	127.50	127.80	127.40	126.50
3770146.80	127.40	126.50	125.90	125.70	125.90	126.40	127.40	127.40	126.50
3770129.50	126.10	126.10	125.90	125.40	125.20	125.20	125.50	125.10	124.30
3770112.20	124.60	125.20	125.30	124.70	124.50	124.30	123.90	123.20	122.50
3770094.90	122.50	122.70	123.00	123.30	123.70	123.80	123.50	122.90	122.40
3770077.60	121.20	121.10	121.20	121.70	122.10	122.30	122.10	122.20	122.10
3770060.30	120.70	120.20	119.90	119.90	119.80	119.60	119.50	120.80	121.70
3770043.00	121.00	119.80	119.00	118.50	118.20	117.80	117.60	118.40	119.40
3770025.70	121.60	119.60	118.20	117.30	116.90	116.40	115.90	115.40	116.30
3770008.40	122.80	119.90	117.80	116.70	116.10	115.50	114.90	114.40	114.80
3769991.10	123.20	119.80	117.60	116.30	115.40	114.60	114.00	113.60	113.40
3769973.80	120.00	118.70	117.80	117.30	115.20	113.80	113.30	112.80	112.40
3769956.50	117.90	117.90	117.80	117.80	115.50	113.80	112.70	112.00	111.40

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	384530.83	384547.55	384564.27
3770302.50	130.30	131.80	133.10
3770285.20	129.90	131.90	133.80
3770267.90	129.60	132.10	134.80
3770250.60	128.30	131.20	134.80
3770233.30	127.20	130.40	134.60
3770216.00	126.50	129.70	134.10
3770198.70	125.80	129.00	133.50
3770181.40	125.20	128.30	132.80
3770164.10	124.60	126.00	128.80
3770146.80	124.10	123.10	123.80
3770129.50	122.90	122.30	122.60

3770112.20	121.90	121.60	121.20
3770094.90	121.70	120.30	118.90
3770077.60	121.50	119.70	117.90
3770060.30	121.20	120.30	118.90
3770043.00	120.50	120.30	119.40
3770025.70	119.60	119.90	119.40
3770008.40	116.80	118.00	118.80
3769991.10	113.60	115.90	117.80
3769973.80	112.10	112.90	113.80
3769956.50	110.90	110.60	110.50

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 384229.87	384246.59	384263.31	384280.03	384296.75	384313.47	384330.19	384346.91	384363.63
3770302.50	152.60	152.60	150.00	139.20	134.20	134.10	134.20	134.50	134.90
3770285.20	130.90	139.20	147.90	139.20	135.50	134.20	133.20	133.80	134.20
3770267.90	130.70	134.50	139.20	135.50	135.50	135.50	132.90	132.70	133.40
3770250.60	130.50	134.00	134.00	134.20	135.50	135.50	134.80	133.40	132.20
3770233.30	134.00	134.00	134.00	128.60	132.90	134.80	134.80	134.80	134.80
3770216.00	134.00	134.90	134.90	128.90	128.40	127.60	134.80	134.80	134.80
3770198.70	134.20	134.90	134.90	134.90	128.40	127.80	126.90	134.50	135.10
3770181.40	134.70	133.30	134.90	135.50	132.80	127.80	127.50	126.80	134.50
3770164.10	135.00	133.60	135.50	135.50	135.50	127.10	126.70	126.50	126.60
3770146.80	135.10	133.60	135.50	135.50	135.50	135.50	125.80	126.10	126.60
3770129.50	134.40	135.50	135.50	135.50	135.50	135.50	133.10	124.90	125.20
3770112.20	133.80	134.20	131.00	130.30	131.50	137.50	137.50	137.50	123.90
3770094.90	133.60	132.40	131.70	131.00	137.50	137.50	137.50	137.50	137.50
3770077.60	133.90	133.40	132.70	131.90	137.50	137.50	137.50	137.50	137.50
3770060.30	134.30	134.60	134.10	137.50	137.50	137.50	137.50	137.50	137.50
3770043.00	135.30	135.90	137.50	137.50	137.50	137.50	137.50	137.50	137.50
3770025.70	136.30	137.10	136.30	134.90	133.90	133.60	136.30	137.50	137.50
3770008.40	135.30	136.30	136.20	135.50	134.30	136.30	136.30	137.50	137.50
3769991.10	134.30	135.30	135.80	135.80	134.30	136.30	136.30	137.50	137.50
3769973.80	133.10	134.00	134.60	134.70	136.30	136.30	136.30	136.30	137.50
3769956.50	131.80	133.60	133.20	134.50	134.50	136.30	136.30	136.30	137.50

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	135.30	134.80	134.20	134.30	133.80	133.30	136.30	133.30	136.30
3770285.20	134.90	134.60	134.50	135.20	134.50	133.10	136.30	136.30	136.30
3770267.90	134.40	134.40	134.70	135.90	135.10	136.30	136.30	136.30	136.30
3770250.60	133.20	134.00	134.70	135.40	134.30	136.30	136.30	136.30	136.30
3770233.30	134.50	134.50	134.20	134.80	133.70	132.00	136.30	136.30	136.30
3770216.00	136.30	134.50	133.20	134.10	133.30	131.70	135.10	136.30	136.10
3770198.70	136.30	135.10	134.00	134.00	134.00	134.00	135.10	135.10	136.10
3770181.40	135.10	135.10	135.10	134.00	134.00	134.00	134.00	132.40	136.10
3770164.10	134.00	135.10	135.10	134.00	134.00	134.00	127.80	127.40	136.10
3770146.80	127.40	134.00	134.00	135.10	134.00	134.00	127.40	127.40	136.10
3770129.50	126.10	126.10	125.90	134.00	134.00	134.00	127.70	127.70	136.10
3770112.20	125.30	126.30	126.30	124.70	124.50	124.30	127.70	134.80	136.10
3770094.90	137.50	126.30	126.30	123.30	123.70	123.80	123.50	122.90	136.10
3770077.60	137.50	137.50	133.60	122.60	123.70	123.70	123.20	122.20	134.80
3770060.30	137.50	137.50	137.50	133.60	123.70	123.70	123.70	120.80	121.70
3770043.00	137.50	137.50	137.50	137.50	136.30	123.70	134.80	134.80	134.80
3770025.70	137.50	137.50	137.50	137.50	137.50	136.30	134.80	136.10	136.10
3770008.40	137.50	137.50	137.50	137.50	137.50	137.50	136.30	134.80	136.10
3769991.10	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	134.80
3769973.80	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	136.30
3769956.50	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	136.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	384530.83	384547.55	384564.27
3770302.50	136.30	136.30	136.30
3770285.20	136.30	134.90	133.80
3770267.90	134.90	134.90	134.80
3770250.60	136.10	134.90	134.80
3770233.30	136.10	136.10	134.60
3770216.00	136.10	136.10	134.10
3770198.70	136.10	136.10	136.10
3770181.40	136.10	136.10	132.80

3770164.10	136.10	136.10	136.10
3770146.80	136.10	136.10	136.10
3770129.50	136.10	136.10	136.10
3770112.20	136.10	136.10	136.10
3770094.90	136.10	136.10	136.10
3770077.60	136.10	136.10	136.10
3770060.30	134.80	136.10	136.10
3770043.00	120.50	134.80	136.10
3770025.70	120.20	119.90	134.80
3770008.40	134.80	120.20	118.80
3769991.10	136.10	120.20	117.80
3769973.80	134.80	134.80	134.80
3769956.50	134.80	136.10	136.10

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(384316.8, 3770081.4, 128.1, 137.5, 0.0); (384338.4, 3770053.1, 127.0, 137.5, 0.0);
(384290.3, 3770038.6, 133.4, 137.5, 0.0); (384317.7, 3770025.8, 131.5, 133.6, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0000685	384280.0	3770285.2	-0.40
L0000686	384280.0	3770285.2	-0.81
L0000691	384296.8	3770267.9	0.55
L0000692	384296.8	3770267.9	-3.02
L0000693	384296.8	3770267.9	-0.51
L0000698	384313.5	3770250.6	-0.58
L0000699	384313.5	3770250.6	-1.62
L0000705	384330.2	3770233.3	0.24
L0000721	384380.3	3770198.7	0.59
L0000722	384380.3	3770198.7	-0.52
L0000728	384397.1	3770181.4	-2.01
L0000729	384397.1	3770181.4	-1.12

L0000734	384413.8	3770164.1	-0.14
L0000735	384413.8	3770164.1	-2.53
L0000736	384413.8	3770164.1	0.46
L0000741	384430.5	3770146.8	-0.07
L0000742	384430.5	3770146.8	0.05
L0000758	384480.7	3770112.2	0.04
L0000764	384497.4	3770094.9	-1.00
L0000765	384497.4	3770094.9	-1.41
L0000770	384514.1	3770077.6	0.50
L0000771	384514.1	3770077.6	-3.00
L0000772	384514.1	3770077.6	-0.44
L0000777	384530.8	3770060.3	-0.11
L0000778	384530.8	3770060.3	-0.88
L0000794	384263.3	3770267.9	0.79
L0000810	384313.5	3770233.3	0.65
L0000811	384313.5	3770233.3	-1.20
L0000812	384313.5	3770233.3	0.85
L0000817	384330.2	3770216.0	-1.74
L0000818	384330.2	3770216.0	-1.86
L0000823	384346.9	3770198.7	0.66
L0000824	384346.9	3770198.7	-1.80
L0000825	384346.9	3770198.7	0.21
L0000830	384363.6	3770181.4	0.93
L0000831	384363.6	3770181.4	0.56
L0000847	384413.8	3770146.8	-0.90
L0000848	384413.8	3770146.8	0.36
L0000853	384430.5	3770129.5	-0.92
L0000854	384430.5	3770129.5	-2.55

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0000860	384447.2	3770112.2	-1.73
L0000861	384447.2	3770112.2	-0.58
L0000867	384464.0	3770094.9	0.15
L0000883	384514.1	3770060.3	-0.42
L0000884	384514.1	3770060.3	-0.02
L0000889	384530.8	3770043.0	-0.11
L0000890	384530.8	3770043.0	-2.89
L0000891	384530.8	3770043.0	0.26
L0000896	384547.5	3770025.7	-1.35

L0000897   384547.5   3770025.7   -1.35

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: E:\New MET data\CELA_V9_ADJU\CELA_v9.SFC   Met Version: 16216
Profile file: E:\New MET data\CELA_V9_ADJU\CELA_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.:   93134   Upper air station no.:   3190
Name: UNKNOWN   Name: UNKNOWN
Year: 2010   Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-33.0	0.331	-9.000	-9.000	-999.	456.	120.2	0.56	0.86	1.00	3.10	38.	21.3	284.9	17.7
10	01	01	1	02	-26.9	0.285	-9.000	-9.000	-999.	367.	89.6	0.56	0.86	1.00	2.70	38.	21.3	284.2	17.7
10	01	01	1	03	-38.6	0.387	-9.000	-9.000	-999.	577.	164.6	0.56	0.86	1.00	3.60	35.	21.3	284.2	17.7
10	01	01	1	04	-33.0	0.331	-9.000	-9.000	-999.	458.	120.2	0.56	0.86	1.00	3.10	34.	21.3	283.8	17.7
10	01	01	1	05	-33.1	0.331	-9.000	-9.000	-999.	456.	120.2	0.56	0.86	1.00	3.10	37.	21.3	283.1	17.7

```
10 01 01   1 06  -38.7  0.387 -9.000 -9.000 -999.  577.    164.5  0.56   0.86   1.00    3.60   24.   21.3  283.1   17.7
10 01 01   1 07  -38.6  0.387 -9.000 -9.000 -999.  577.    164.5  0.56   0.86   1.00    3.60   35.   21.3  283.8   17.7
10 01 01   1 08  -29.6  0.435 -9.000 -9.000 -999.  688.    251.8  0.56   0.86   0.55    4.00   35.   21.3  283.8   17.7
10 01 01   1 09   30.0  0.426  0.367  0.008   59.  666.   -232.0  0.56   0.86   0.32    3.60   38.   21.3  286.4   17.7
10 01 01   1 10   72.3  0.359  0.629  0.008  124.  519.    -57.8  0.56   0.86   0.24    2.70   34.   21.3  290.4   17.7
10 01 01   1 11  104.4  0.321  0.998  0.008  344.  437.    -28.6  0.56   0.86   0.21    2.20   43.   21.3  292.5   17.7
10 01 01   1 12  115.1  0.283  1.156  0.008  484.  363.    -17.9  0.56   0.86   0.20    1.80   62.   21.3  295.9   17.7
10 01 01   1 13   91.4  0.406  1.130  0.008  568.  622.    -66.2  0.56   0.86   0.20    3.10  263.   21.3  294.2   17.7
10 01 01   1 14   89.3  0.316  1.168  0.008  642.  432.    -31.9  0.56   0.86   0.21    2.20  259.   21.3  294.9   17.7
10 01 01   1 15   42.6  0.295  0.928  0.008  675.  384.    -54.0  0.56   0.86   0.25    2.20  267.   21.3  294.9   17.7
10 01 01   1 16   12.0  0.359  0.609  0.008  680.  516.   -347.9  0.56   0.86   0.33    3.10  264.   21.3  292.5   17.7
10 01 01   1 17  -15.7  0.231 -9.000 -9.000 -999.  276.     70.7  0.56   0.86   0.60    2.20  288.   21.3  290.9   17.7
10 01 01   1 18   -6.1  0.135 -9.000 -9.000 -999.  124.     36.7  0.56   0.86   1.00    1.30  344.   21.3  289.2   17.7
10 01 01   1 19  -11.4  0.184 -9.000 -9.000 -999.  190.     49.2  0.56   0.86   1.00    1.80    2.   21.3  288.8   17.7
10 01 01   1 20  -17.4  0.229 -9.000 -9.000 -999.  263.     62.1  0.56   0.86   1.00    2.20   22.   21.3  288.1   17.7
10 01 01   1 21  -17.4  0.229 -9.000 -9.000 -999.  263.     61.9  0.56   0.86   1.00    2.20   40.   21.3  287.0   17.7
10 01 01   1 22  -11.5  0.184 -9.000 -9.000 -999.  190.     49.1  0.56   0.86   1.00    1.80  306.   21.3  287.0   17.7
10 01 01   1 23  -11.5  0.184 -9.000 -9.000 -999.  190.     49.0  0.56   0.86   1.00    1.80   45.   21.3  286.4   17.7
10 01 01   1 24  -11.5  0.184 -9.000 -9.000 -999.  190.     49.0  0.56   0.86   1.00    1.80   67.   21.3  286.4   17.7


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
10 01 01 01   17.7 0 -999.  -99.00   284.9   99.0  -99.00  -99.00
10 01 01 01   21.3 1   38.    3.10  -999.0   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court 2 yr\7427 Firmin Court 2 yr.i ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2yr                                                ***        09:33:50
                                                                                                                      PAGE  24
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     L0000680    , L0000681    , L0000682    , L0000683    , L0000684    ,
                L0000685    , L0000686    , L0000687    , L0000688    , L0000689    , L0000690    , L0000691    , L0000692    ,
                L0000693    , L0000694    , L0000695    , L0000696    , L0000697    , L0000698    , L0000699    , L0000700    ,
                L0000701    , L0000702    , L0000703    , L0000704    , L0000705    , L0000706    , L0000707    ,  . . .      ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3                         **

   Y-COORD  |                                                  X-COORD (METERS)
   (METERS) |    384229.87    384246.59    384263.31    384280.03    384296.75    384313.47    384330.19    384346.91    384363.63
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3770302.50 |       0.01039      0.01772      0.04194      0.02662      0.01826      0.01410      0.01195      0.01031      0.00902
 3770285.20 |       0.01288      0.04785      0.06926      0.06720      0.03769      0.02308      0.01699      0.01370      0.01151
 3770267.90 |       0.01246      0.02634      0.07595      0.08773      0.06295      0.04675      0.02629      0.01920      0.01513
 3770250.60 |       0.01084      0.01713      0.03008      0.07315      0.10872      0.08348      0.05587      0.02991      0.02098
```

3770233.30	0.00915	0.01287	0.01883	0.02968	0.06005	0.06751	0.09783	0.06910	0.03331
3770216.00	0.00772	0.01034	0.01393	0.01923	0.02843	0.05133	0.08418	0.09875	0.09056
3770198.70	0.00671	0.00855	0.01097	0.01429	0.01904	0.02706	0.04517	0.06389	0.09238
3770181.40	0.00593	0.00724	0.00901	0.01137	0.01433	0.01861	0.02562	0.04036	0.06964
3770164.10	0.00530	0.00633	0.00766	0.00936	0.01144	0.01417	0.01805	0.02426	0.03651
3770146.80	0.00479	0.00562	0.00664	0.00791	0.00945	0.01136	0.01385	0.01738	0.02291
3770129.50	0.00439	0.00508	0.00586	0.00680	0.00798	0.00940	0.01114	0.01343	0.01667
3770112.20	0.00402	0.00459	0.00521	0.00593	0.00685	0.00794	0.00923	0.01083	0.01295
3770094.90	0.00369	0.00414	0.00465	0.00523	0.00595	0.00681	0.00780	0.00899	0.01046
3770077.60	0.00337	0.00374	0.00416	0.00464	0.00522	0.00589	0.00667	0.00761	0.00867
3770060.30	0.00309	0.00338	0.00372	0.00414	0.00462	0.00515	0.00576	0.00652	0.00733
3770043.00	0.00282	0.00305	0.00334	0.00370	0.00409	0.00454	0.00504	0.00564	0.00628
3770025.70	0.00258	0.00277	0.00302	0.00332	0.00364	0.00402	0.00444	0.00491	0.00543
3770008.40	0.00241	0.00257	0.00277	0.00300	0.00327	0.00360	0.00395	0.00432	0.00473
3769991.10	0.00225	0.00239	0.00255	0.00273	0.00297	0.00324	0.00352	0.00383	0.00414
3769973.80	0.00211	0.00223	0.00237	0.00252	0.00272	0.00294	0.00316	0.00341	0.00366
3769956.50	0.00197	0.00208	0.00220	0.00234	0.00250	0.00268	0.00286	0.00305	0.00324

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000680 , L0000681 , L0000682 , L0000683 , L0000684 ,
L0000685 , L0000686 , L0000687 , L0000688 , L0000689 , L0000690 , L0000691 , L0000692 ,
L0000693 , L0000694 , L0000695 , L0000696 , L0000697 , L0000698 , L0000699 , L0000700 ,
L0000701 , L0000702 , L0000703 , L0000704 , L0000705 , L0000706 , L0000707 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	0.00798	0.00724	0.00660	0.00599	0.00549	0.00508	0.00470	0.00433	0.00399
3770285.20	0.00984	0.00870	0.00775	0.00688	0.00626	0.00576	0.00530	0.00484	0.00443
3770267.90	0.01237	0.01059	0.00918	0.00794	0.00717	0.00657	0.00601	0.00544	0.00494
3770250.60	0.01628	0.01321	0.01106	0.00944	0.00844	0.00762	0.00686	0.00614	0.00552
3770233.30	0.02270	0.01730	0.01376	0.01146	0.01005	0.00891	0.00790	0.00698	0.00620
3770216.00	0.03789	0.02438	0.01804	0.01431	0.01216	0.01055	0.00919	0.00799	0.00702
3770198.70	0.07584	0.04191	0.02596	0.01917	0.01542	0.01280	0.01086	0.00928	0.00804
3770181.40	0.09518	0.08375	0.04793	0.02801	0.02046	0.01610	0.01315	0.01100	0.00934
3770164.10	0.08024	0.11042	0.06926	0.05507	0.03089	0.02169	0.01663	0.01340	0.01108
3770146.80	0.03320	0.06400	0.08586	0.08248	0.06675	0.03360	0.02264	0.01707	0.01357
3770129.50	0.02164	0.03058	0.05368	0.08782	0.10633	0.08389	0.03658	0.02394	0.01757
3770112.20	0.01593	0.02041	0.02818	0.04630	0.08189	0.09487	0.08903	0.04033	0.02504
3770094.90	0.01239	0.01508	0.01910	0.02588	0.04062	0.08861	0.09498	0.07988	0.04468
3770077.60	0.01000	0.01177	0.01420	0.01782	0.02377	0.03581	0.08006	0.10679	0.06659

3770060.30	0.00829	0.00952	0.01111	0.01328	0.01640	0.02135	0.03088	0.06203	0.08060
3770043.00	0.00701	0.00788	0.00896	0.01035	0.01220	0.01480	0.01886	0.02673	0.04837
3770025.70	0.00599	0.00662	0.00736	0.00827	0.00945	0.01094	0.01295	0.01587	0.02134
3770008.40	0.00517	0.00563	0.00615	0.00677	0.00752	0.00841	0.00949	0.01082	0.01263
3769991.10	0.00448	0.00483	0.00520	0.00562	0.00610	0.00663	0.00722	0.00784	0.00844
3769973.80	0.00390	0.00416	0.00445	0.00477	0.00505	0.00535	0.00568	0.00597	0.00617
3769956.50	0.00341	0.00362	0.00384	0.00407	0.00425	0.00443	0.00459	0.00472	0.00477

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000680 , L0000681 , L0000682 , L0000683 , L0000684 ,
L0000685 , L0000686 , L0000687 , L0000688 , L0000689 , L0000690 , L0000691 , L0000692 ,
L0000693 , L0000694 , L0000695 , L0000696 , L0000697 , L0000698 , L0000699 , L0000700 ,
L0000701 , L0000702 , L0000703 , L0000704 , L0000705 , L0000706 , L0000707 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 384530.83	384547.55	384564.27
3770302.50	0.00368	0.00339	0.00311
3770285.20	0.00407	0.00371	0.00337
3770267.90	0.00450	0.00407	0.00364
3770250.60	0.00499	0.00450	0.00397
3770233.30	0.00555	0.00499	0.00435
3770216.00	0.00622	0.00555	0.00478
3770198.70	0.00702	0.00621	0.00530
3770181.40	0.00801	0.00701	0.00591
3770164.10	0.00928	0.00796	0.00683
3770146.80	0.01102	0.00911	0.00767
3770129.50	0.01357	0.01078	0.00876
3770112.20	0.01774	0.01329	0.01026
3770094.90	0.02585	0.01740	0.01240
3770077.60	0.04994	0.02571	0.01583
3770060.30	0.08016	0.05551	0.02314
3770043.00	0.06166	0.10001	0.04853
3770025.70	0.03647	0.04391	0.02499
3770008.40	0.01522	0.01637	0.01267
3769991.10	0.00885	0.00889	0.00796
3769973.80	0.00620	0.00603	0.00559
3769956.50	0.00472	0.00455	0.00425

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000680 , L0000681 , L0000682 , L0000683 , L0000684 ,
L0000685 , L0000686 , L0000687 , L0000688 , L0000689 , L0000690 , L0000691 , L0000692 ,
L0000693 , L0000694 , L0000695 , L0000696 , L0000697 , L0000698 , L0000699 , L0000700 ,
L0000701 , L0000702 , L0000703 , L0000704 , L0000705 , L0000706 , L0000707 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
384316.78	3770081.36	0.00622	384338.40	3770053.13	0.00578
384290.31	3770038.57	0.00382	384317.67	3770025.77	0.00412

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.11042 AT	(384397.07, 3770164.10, 126.50, 135.10, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.10872 AT	(384296.75, 3770250.60, 126.90, 135.50, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.10679 AT	(384497.39, 3770077.60, 122.20, 122.20, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.10633 AT	(384447.23, 3770129.50, 125.20, 134.00, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.10001 AT	(384547.55, 3770043.00, 120.30, 134.80, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.09875 AT	(384346.91, 3770216.00, 127.20, 134.80, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.09783 AT	(384330.19, 3770233.30, 126.80, 134.80, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.09518 AT	(384380.35, 3770181.40, 126.50, 135.10, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.09498 AT	(384480.67, 3770094.90, 123.50, 123.50, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.09487 AT	(384463.95, 3770112.20, 124.30, 124.30, 0.00)	GC	UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 4 Warning Message(s)
A Total of 808 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 804 Missing Hours Identified (1.83 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

ME W186	535	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	535	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	
MX W450	17521	CHKDAT: Record Out of Sequence in Meteorological File at:	14010101
MX W450	17521	CHKDAT: Record Out of Sequence in Meteorological File at:	2 year gap

****
*** AERMOD Finishes Successfully ***
****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.0
** Lakes Environmental Software Inc.
** Date: 7/27/2018
** File: C:\Lakes\AERMOD View\7427 Firmin Court 1st 14 years\7427 Firmin Court 1st 14 years.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\7427 Firmin Court 2 yr\7427 Firmin Crt 14yr.i
   TITLETWO DPM concentrations 1st 14 yrs
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "7427 Firmin Court 1st 14 years.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC WB 101 FWY
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000421
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 384261.633, 3770298.000, 126.94, 0.00, 1.70
** 384561.659, 3770036.801, 119.57, 0.00, 1.70
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LOCATION L0000900     VOLUME   384268.529 3770291.996 127.26
LOCATION L0000901     VOLUME   384271.288 3770289.594 127.28
LOCATION L0000902     VOLUME   384274.047 3770287.193 127.26
LOCATION L0000903     VOLUME   384276.805 3770284.791 127.21
LOCATION L0000904     VOLUME   384279.564 3770282.389 127.11
LOCATION L0000905     VOLUME   384282.323 3770279.988 127.02
LOCATION L0000906     VOLUME   384285.081 3770277.586 126.89
LOCATION L0000907     VOLUME   384287.840 3770275.185 126.70
LOCATION L0000908     VOLUME   384290.598 3770272.783 126.45
LOCATION L0000909     VOLUME   384293.357 3770270.381 126.57
LOCATION L0000910     VOLUME   384296.116 3770267.980 126.67
LOCATION L0000911     VOLUME   384298.874 3770265.578 126.72
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LOCATION L0000915     VOLUME   384309.909 3770255.971 127.02
LOCATION L0000916     VOLUME   384312.668 3770253.570 127.21
LOCATION L0000917     VOLUME   384315.426 3770251.168 127.31
LOCATION L0000918     VOLUME   384318.185 3770248.766 127.33
LOCATION L0000919     VOLUME   384320.944 3770246.365 127.26
LOCATION L0000920     VOLUME   384323.702 3770243.963 127.11
LOCATION L0000921     VOLUME   384326.461 3770241.561 126.87
LOCATION L0000922     VOLUME   384329.220 3770239.160 126.90
LOCATION L0000923     VOLUME   384331.978 3770236.758 126.99
LOCATION L0000924     VOLUME   384334.737 3770234.357 127.30
LOCATION L0000925     VOLUME   384337.495 3770231.955 127.55
LOCATION L0000926     VOLUME   384340.254 3770229.553 127.74
LOCATION L0000927     VOLUME   384343.013 3770227.152 127.87
LOCATION L0000928     VOLUME   384345.771 3770224.750 127.93
LOCATION L0000929     VOLUME   384348.530 3770222.348 127.94
LOCATION L0000930     VOLUME   384351.289 3770219.947 127.88
LOCATION L0000931     VOLUME   384354.047 3770217.545 127.77
LOCATION L0000932     VOLUME   384356.806 3770215.143 127.58
LOCATION L0000933     VOLUME   384359.565 3770212.742 127.28
LOCATION L0000934     VOLUME   384362.323 3770210.340 126.94
LOCATION L0000935     VOLUME   384365.082 3770207.938 126.88
LOCATION L0000936     VOLUME   384367.841 3770205.537 126.84
LOCATION L0000937     VOLUME   384370.599 3770203.135 126.81
LOCATION L0000938     VOLUME   384373.358 3770200.734 126.78
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LOCATION L0000940     VOLUME   384378.875 3770195.930 126.71
LOCATION L0000941     VOLUME   384381.634 3770193.529 126.68
LOCATION L0000942     VOLUME   384384.392 3770191.127 126.83
LOCATION L0000943     VOLUME   384387.151 3770188.725 126.94
LOCATION L0000944     VOLUME   384389.910 3770186.324 126.95
LOCATION L0000945     VOLUME   384392.668 3770183.922 126.88
LOCATION L0000946     VOLUME   384395.427 3770181.520 126.71
LOCATION L0000947     VOLUME   384398.186 3770179.119 126.46
LOCATION L0000948     VOLUME   384400.944 3770176.717 126.42
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LOCATION L0000952     VOLUME   384411.979 3770167.110 126.64
LOCATION L0000953     VOLUME   384414.738 3770164.709 126.76
LOCATION L0000954     VOLUME   384417.496 3770162.307 126.80
LOCATION L0000955     VOLUME   384420.255 3770159.906 126.79
LOCATION L0000956     VOLUME   384423.014 3770157.504 126.70
LOCATION L0000957     VOLUME   384425.772 3770155.102 126.54
LOCATION L0000958     VOLUME   384428.531 3770152.701 126.32
LOCATION L0000959     VOLUME   384431.289 3770150.299 126.03
LOCATION L0000960     VOLUME   384434.048 3770147.897 125.70
LOCATION L0000961     VOLUME   384436.807 3770145.496 125.66
LOCATION L0000962     VOLUME   384439.565 3770143.094 125.64
LOCATION L0000963     VOLUME   384442.324 3770140.692 125.59
LOCATION L0000964     VOLUME   384445.083 3770138.291 125.54
LOCATION L0000965     VOLUME   384447.841 3770135.889 125.46
LOCATION L0000966     VOLUME   384450.600 3770133.487 125.37
LOCATION L0000967     VOLUME   384453.359 3770131.086 125.27
LOCATION L0000968     VOLUME   384456.117 3770128.684 125.14
LOCATION L0000969     VOLUME   384458.876 3770126.282 125.01
LOCATION L0000970     VOLUME   384461.635 3770123.881 124.88
LOCATION L0000971     VOLUME   384464.393 3770121.479 124.70
LOCATION L0000972     VOLUME   384467.152 3770119.078 124.50
LOCATION L0000973     VOLUME   384469.911 3770116.676 124.26
LOCATION L0000974     VOLUME   384472.669 3770114.274 124.11
LOCATION L0000975     VOLUME   384475.428 3770111.873 123.99
LOCATION L0000976     VOLUME   384478.186 3770109.471 123.87
LOCATION L0000977     VOLUME   384480.945 3770107.069 123.75
LOCATION L0000978     VOLUME   384483.704 3770104.668 123.63
LOCATION L0000979     VOLUME   384486.462 3770102.266 123.47
LOCATION L0000980     VOLUME   384489.221 3770099.864 123.32
LOCATION L0000981     VOLUME   384491.980 3770097.463 123.17
LOCATION L0000982     VOLUME   384494.738 3770095.061 123.03
LOCATION L0000983     VOLUME   384497.497 3770092.659 122.90
LOCATION L0000984     VOLUME   384500.256 3770090.258 122.77
LOCATION L0000985     VOLUME   384503.014 3770087.856 122.65
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LOCATION L0000988     VOLUME   384511.290 3770080.651 122.25
LOCATION L0000989     VOLUME   384514.049 3770078.250 122.10
LOCATION L0000990     VOLUME   384516.808 3770075.848 121.95
LOCATION L0000991     VOLUME   384519.566 3770073.446 121.80
LOCATION L0000992     VOLUME   384522.325 3770071.045 121.66
LOCATION L0000993     VOLUME   384525.083 3770068.643 121.51
LOCATION L0000994     VOLUME   384527.842 3770066.241 121.38
LOCATION L0000995     VOLUME   384530.601 3770063.840 121.24
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LOCATION L0000997     VOLUME   384536.118 3770059.036 120.94
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LOCATION L0000999     VOLUME   384541.635 3770054.233 120.71
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   LOCATION L0001003     VOLUME   384552.670 3770044.627 120.16
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   LOCATION L0001005     VOLUME   384558.187 3770039.823 119.90
   LOCATION L0001006     VOLUME   384560.946 3770037.422 119.69
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC EB 101 FWY
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000421
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 384249.720, 3770285.205, 128.88, 0.00, 1.70
** 384550.628, 3770024.888, 119.45, 0.00, 1.70
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   LOCATION L0001008     VOLUME   384253.869 3770281.615 125.93
   LOCATION L0001009     VOLUME   384256.635 3770279.222 125.75
   LOCATION L0001010     VOLUME   384259.401 3770276.829 125.74
   LOCATION L0001011     VOLUME   384262.168 3770274.436 125.70
   LOCATION L0001012     VOLUME   384264.934 3770272.043 125.79
   LOCATION L0001013     VOLUME   384267.700 3770269.650 126.12
   LOCATION L0001014     VOLUME   384270.466 3770267.257 126.41
   LOCATION L0001015     VOLUME   384273.232 3770264.864 126.67
   LOCATION L0001016     VOLUME   384275.998 3770262.471 126.89
   LOCATION L0001017     VOLUME   384278.764 3770260.078 127.07
   LOCATION L0001018     VOLUME   384281.531 3770257.685 127.20
   LOCATION L0001019     VOLUME   384284.297 3770255.292 127.27
   LOCATION L0001020     VOLUME   384287.063 3770252.899 127.29
   LOCATION L0001021     VOLUME   384289.829 3770250.506 127.25
   LOCATION L0001022     VOLUME   384292.595 3770248.113 127.16
   LOCATION L0001023     VOLUME   384295.361 3770245.720 127.02
   LOCATION L0001024     VOLUME   384298.127 3770243.327 126.83
   LOCATION L0001025     VOLUME   384300.894 3770240.934 126.63
   LOCATION L0001026     VOLUME   384303.660 3770238.541 126.55
   LOCATION L0001027     VOLUME   384306.426 3770236.148 126.57
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   LOCATION L0001032     VOLUME   384320.257 3770224.183 127.00
   LOCATION L0001033     VOLUME   384323.023 3770221.790 126.93
   LOCATION L0001034     VOLUME   384325.789 3770219.397 126.81
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LOCATION L0001038     VOLUME   384336.854 3770209.825 126.50
LOCATION L0001039     VOLUME   384339.620 3770207.432 126.60
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LOCATION L0001048     VOLUME   384364.515 3770185.895 126.49
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LOCATION L0001064     VOLUME   384408.773 3770147.607 125.91
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LOCATION L0001078     VOLUME   384447.499 3770114.105 124.60
LOCATION L0001079     VOLUME   384450.266 3770111.712 124.45
LOCATION L0001080     VOLUME   384453.032 3770109.319 124.34
LOCATION L0001081     VOLUME   384455.798 3770106.926 124.25
LOCATION L0001082     VOLUME   384458.564 3770104.533 124.17
LOCATION L0001083     VOLUME   384461.330 3770102.140 124.04
LOCATION L0001084     VOLUME   384464.096 3770099.747 123.92
LOCATION L0001085     VOLUME   384466.863 3770097.354 123.81
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   LOCATION L0001087     VOLUME   384472.395 3770092.568 123.57
   LOCATION L0001088     VOLUME   384475.161 3770090.175 123.46
   LOCATION L0001089     VOLUME   384477.927 3770087.782 123.35
   LOCATION L0001090     VOLUME   384480.693 3770085.389 123.23
   LOCATION L0001091     VOLUME   384483.459 3770082.996 122.83
   LOCATION L0001092     VOLUME   384486.226 3770080.603 122.47
   LOCATION L0001093     VOLUME   384488.992 3770078.210 122.17
   LOCATION L0001094     VOLUME   384491.758 3770075.817 121.94
   LOCATION L0001095     VOLUME   384494.524 3770073.424 121.76
   LOCATION L0001096     VOLUME   384497.290 3770071.031 121.65
   LOCATION L0001097     VOLUME   384500.056 3770068.638 121.60
   LOCATION L0001098     VOLUME   384502.822 3770066.245 121.62
   LOCATION L0001099     VOLUME   384505.589 3770063.852 121.69
   LOCATION L0001100     VOLUME   384508.355 3770061.459 121.83
   LOCATION L0001101     VOLUME   384511.121 3770059.066 121.73
   LOCATION L0001102     VOLUME   384513.887 3770056.673 121.59
   LOCATION L0001103     VOLUME   384516.653 3770054.280 121.45
   LOCATION L0001104     VOLUME   384519.419 3770051.887 121.05
   LOCATION L0001105     VOLUME   384522.185 3770049.494 120.73
   LOCATION L0001106     VOLUME   384524.952 3770047.101 120.52
   LOCATION L0001107     VOLUME   384527.718 3770044.708 120.42
   LOCATION L0001108     VOLUME   384530.484 3770042.315 120.43
   LOCATION L0001109     VOLUME   384533.250 3770039.922 120.54
   LOCATION L0001110     VOLUME   384536.016 3770037.529 120.49
   LOCATION L0001111     VOLUME   384538.782 3770035.136 120.35
   LOCATION L0001112     VOLUME   384541.549 3770032.743 120.22
   LOCATION L0001113     VOLUME   384544.315 3770030.350 120.09
   LOCATION L0001114     VOLUME   384547.081 3770027.957 119.96
   LOCATION L0001115     VOLUME   384549.847 3770025.564 119.84
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000898     0.0000003862      0.00      1.70      0.85
   SRCPARAM L0000899     0.0000003862      0.00      1.70      0.85
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   SRCPARAM L0000912     0.0000003862      0.00      1.70      0.85
   SRCPARAM L0000913     0.0000003862      0.00      1.70      0.85
   SRCPARAM L0000914     0.0000003862      0.00      1.70      0.85
   SRCPARAM L0000915     0.0000003862      0.00      1.70      0.85
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** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
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** ------------------------------------------------------------------
   URBANSRC ALL
```

```
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "7427 Firmin Court 1st 14 years.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\CELA_V9_ADJU\CELA_v9.SFC"
   PROFFILE "E:\New MET data\CELA_V9_ADJU\CELA_v9.PFL"
   SURFDATA 93134 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 87.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "7427 FIRMIN COURT 1ST 14 YEARS.AD\AN00GALL.PLT" 31
   SUMMFILE "7427 Firmin Court 1st 14 years.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***
```

```
   ********   WARNING MESSAGES   ********
ME W186     535       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     535       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

**********************************
*** SETUP Finishes Successfully ***
**********************************


*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court 2 yr\7427 Firmin Crt 14yr.i   ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations 1st 14 yrs                                       ***        10:50:22
                                                                                                                   PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for   218 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates ANNUAL Averages Only

**This Run Includes:    218 Source(s);       1 Source Group(s); and     445 Receptor(s)

              with:      0 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
```

```
               and:    218 VOLUME source(s)
               and:      0 AREA type source(s)
               and:      0 LINE source(s)
               and:      0 OPENPIT source(s)
               and:      0 BUOYANT LINE source(s) with      0 line(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of ANNUAL Averages by Receptor
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    87.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                           ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   7427 Firmin Court 1st 14 years.err
**File for Summary of Results:   7427 Firmin Court 1st 14 years.sum

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court 2 yr\7427 Firmin Crt 14yr.i   ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations 1st 14 yrs                                       ***        10:50:22
                                                                                                                    PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.               (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0000898         0   0.38620E-06  384263.0 3770296.8   127.1     0.00     1.70     0.85     YES
L0000899         0   0.38620E-06  384265.8 3770294.4   127.2     0.00     1.70     0.85     YES
L0000900         0   0.38620E-06  384268.5 3770292.0   127.3     0.00     1.70     0.85     YES
L0000901         0   0.38620E-06  384271.3 3770289.6   127.3     0.00     1.70     0.85     YES
L0000902         0   0.38620E-06  384274.0 3770287.2   127.3     0.00     1.70     0.85     YES
L0000903         0   0.38620E-06  384276.8 3770284.8   127.2     0.00     1.70     0.85     YES
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L0000904	0	0.38620E-06	384279.6	3770282.4	127.1	0.00	1.70	0.85	YES
L0000905	0	0.38620E-06	384282.3	3770280.0	127.0	0.00	1.70	0.85	YES
L0000906	0	0.38620E-06	384285.1	3770277.6	126.9	0.00	1.70	0.85	YES
L0000907	0	0.38620E-06	384287.8	3770275.2	126.7	0.00	1.70	0.85	YES
L0000908	0	0.38620E-06	384290.6	3770272.8	126.5	0.00	1.70	0.85	YES
L0000909	0	0.38620E-06	384293.4	3770270.4	126.6	0.00	1.70	0.85	YES
L0000910	0	0.38620E-06	384296.1	3770268.0	126.7	0.00	1.70	0.85	YES
L0000911	0	0.38620E-06	384298.9	3770265.6	126.7	0.00	1.70	0.85	YES
L0000912	0	0.38620E-06	384301.6	3770263.2	126.7	0.00	1.70	0.85	YES
L0000913	0	0.38620E-06	384304.4	3770260.8	126.7	0.00	1.70	0.85	YES
L0000914	0	0.38620E-06	384307.1	3770258.4	126.7	0.00	1.70	0.85	YES
L0000915	0	0.38620E-06	384309.9	3770256.0	127.0	0.00	1.70	0.85	YES
L0000916	0	0.38620E-06	384312.7	3770253.6	127.2	0.00	1.70	0.85	YES
L0000917	0	0.38620E-06	384315.4	3770251.2	127.3	0.00	1.70	0.85	YES
L0000918	0	0.38620E-06	384318.2	3770248.8	127.3	0.00	1.70	0.85	YES
L0000919	0	0.38620E-06	384320.9	3770246.4	127.3	0.00	1.70	0.85	YES
L0000920	0	0.38620E-06	384323.7	3770244.0	127.1	0.00	1.70	0.85	YES
L0000921	0	0.38620E-06	384326.5	3770241.6	126.9	0.00	1.70	0.85	YES
L0000922	0	0.38620E-06	384329.2	3770239.2	126.9	0.00	1.70	0.85	YES
L0000923	0	0.38620E-06	384332.0	3770236.8	127.0	0.00	1.70	0.85	YES
L0000924	0	0.38620E-06	384334.7	3770234.4	127.3	0.00	1.70	0.85	YES
L0000925	0	0.38620E-06	384337.5	3770232.0	127.5	0.00	1.70	0.85	YES
L0000926	0	0.38620E-06	384340.3	3770229.6	127.7	0.00	1.70	0.85	YES
L0000927	0	0.38620E-06	384343.0	3770227.2	127.9	0.00	1.70	0.85	YES
L0000928	0	0.38620E-06	384345.8	3770224.8	127.9	0.00	1.70	0.85	YES
L0000929	0	0.38620E-06	384348.5	3770222.3	127.9	0.00	1.70	0.85	YES
L0000930	0	0.38620E-06	384351.3	3770219.9	127.9	0.00	1.70	0.85	YES
L0000931	0	0.38620E-06	384354.0	3770217.5	127.8	0.00	1.70	0.85	YES
L0000932	0	0.38620E-06	384356.8	3770215.1	127.6	0.00	1.70	0.85	YES
L0000933	0	0.38620E-06	384359.6	3770212.7	127.3	0.00	1.70	0.85	YES
L0000934	0	0.38620E-06	384362.3	3770210.3	126.9	0.00	1.70	0.85	YES
L0000935	0	0.38620E-06	384365.1	3770207.9	126.9	0.00	1.70	0.85	YES
L0000936	0	0.38620E-06	384367.8	3770205.5	126.8	0.00	1.70	0.85	YES
L0000937	0	0.38620E-06	384370.6	3770203.1	126.8	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000938	0	0.38620E-06	384373.4	3770200.7	126.8	0.00	1.70	0.85	YES	
L0000939	0	0.38620E-06	384376.1	3770198.3	126.7	0.00	1.70	0.85	YES	
L0000940	0	0.38620E-06	384378.9	3770195.9	126.7	0.00	1.70	0.85	YES	

L0000941	0	0.38620E-06	384381.6	3770193.5	126.7	0.00	1.70	0.85	YES
L0000942	0	0.38620E-06	384384.4	3770191.1	126.8	0.00	1.70	0.85	YES
L0000943	0	0.38620E-06	384387.2	3770188.7	126.9	0.00	1.70	0.85	YES
L0000944	0	0.38620E-06	384389.9	3770186.3	127.0	0.00	1.70	0.85	YES
L0000945	0	0.38620E-06	384392.7	3770183.9	126.9	0.00	1.70	0.85	YES
L0000946	0	0.38620E-06	384395.4	3770181.5	126.7	0.00	1.70	0.85	YES
L0000947	0	0.38620E-06	384398.2	3770179.1	126.5	0.00	1.70	0.85	YES
L0000948	0	0.38620E-06	384400.9	3770176.7	126.4	0.00	1.70	0.85	YES
L0000949	0	0.38620E-06	384403.7	3770174.3	126.4	0.00	1.70	0.85	YES
L0000950	0	0.38620E-06	384406.5	3770171.9	126.3	0.00	1.70	0.85	YES
L0000951	0	0.38620E-06	384409.2	3770169.5	126.5	0.00	1.70	0.85	YES
L0000952	0	0.38620E-06	384412.0	3770167.1	126.6	0.00	1.70	0.85	YES
L0000953	0	0.38620E-06	384414.7	3770164.7	126.8	0.00	1.70	0.85	YES
L0000954	0	0.38620E-06	384417.5	3770162.3	126.8	0.00	1.70	0.85	YES
L0000955	0	0.38620E-06	384420.3	3770159.9	126.8	0.00	1.70	0.85	YES
L0000956	0	0.38620E-06	384423.0	3770157.5	126.7	0.00	1.70	0.85	YES
L0000957	0	0.38620E-06	384425.8	3770155.1	126.5	0.00	1.70	0.85	YES
L0000958	0	0.38620E-06	384428.5	3770152.7	126.3	0.00	1.70	0.85	YES
L0000959	0	0.38620E-06	384431.3	3770150.3	126.0	0.00	1.70	0.85	YES
L0000960	0	0.38620E-06	384434.0	3770147.9	125.7	0.00	1.70	0.85	YES
L0000961	0	0.38620E-06	384436.8	3770145.5	125.7	0.00	1.70	0.85	YES
L0000962	0	0.38620E-06	384439.6	3770143.1	125.6	0.00	1.70	0.85	YES
L0000963	0	0.38620E-06	384442.3	3770140.7	125.6	0.00	1.70	0.85	YES
L0000964	0	0.38620E-06	384445.1	3770138.3	125.5	0.00	1.70	0.85	YES
L0000965	0	0.38620E-06	384447.8	3770135.9	125.5	0.00	1.70	0.85	YES
L0000966	0	0.38620E-06	384450.6	3770133.5	125.4	0.00	1.70	0.85	YES
L0000967	0	0.38620E-06	384453.4	3770131.1	125.3	0.00	1.70	0.85	YES
L0000968	0	0.38620E-06	384456.1	3770128.7	125.1	0.00	1.70	0.85	YES
L0000969	0	0.38620E-06	384458.9	3770126.3	125.0	0.00	1.70	0.85	YES
L0000970	0	0.38620E-06	384461.6	3770123.9	124.9	0.00	1.70	0.85	YES
L0000971	0	0.38620E-06	384464.4	3770121.5	124.7	0.00	1.70	0.85	YES
L0000972	0	0.38620E-06	384467.2	3770119.1	124.5	0.00	1.70	0.85	YES
L0000973	0	0.38620E-06	384469.9	3770116.7	124.3	0.00	1.70	0.85	YES
L0000974	0	0.38620E-06	384472.7	3770114.3	124.1	0.00	1.70	0.85	YES
L0000975	0	0.38620E-06	384475.4	3770111.9	124.0	0.00	1.70	0.85	YES
L0000976	0	0.38620E-06	384478.2	3770109.5	123.9	0.00	1.70	0.85	YES
L0000977	0	0.38620E-06	384480.9	3770107.1	123.8	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0000978	0	0.38620E-06	384483.7	3770104.7	123.6	0.00	1.70	0.85	YES
L0000979	0	0.38620E-06	384486.5	3770102.3	123.5	0.00	1.70	0.85	YES
L0000980	0	0.38620E-06	384489.2	3770099.9	123.3	0.00	1.70	0.85	YES
L0000981	0	0.38620E-06	384492.0	3770097.5	123.2	0.00	1.70	0.85	YES
L0000982	0	0.38620E-06	384494.7	3770095.1	123.0	0.00	1.70	0.85	YES
L0000983	0	0.38620E-06	384497.5	3770092.7	122.9	0.00	1.70	0.85	YES
L0000984	0	0.38620E-06	384500.3	3770090.3	122.8	0.00	1.70	0.85	YES
L0000985	0	0.38620E-06	384503.0	3770087.9	122.6	0.00	1.70	0.85	YES
L0000986	0	0.38620E-06	384505.8	3770085.5	122.5	0.00	1.70	0.85	YES
L0000987	0	0.38620E-06	384508.5	3770083.1	122.4	0.00	1.70	0.85	YES
L0000988	0	0.38620E-06	384511.3	3770080.7	122.2	0.00	1.70	0.85	YES
L0000989	0	0.38620E-06	384514.0	3770078.2	122.1	0.00	1.70	0.85	YES
L0000990	0	0.38620E-06	384516.8	3770075.8	122.0	0.00	1.70	0.85	YES
L0000991	0	0.38620E-06	384519.6	3770073.4	121.8	0.00	1.70	0.85	YES
L0000992	0	0.38620E-06	384522.3	3770071.0	121.7	0.00	1.70	0.85	YES
L0000993	0	0.38620E-06	384525.1	3770068.6	121.5	0.00	1.70	0.85	YES
L0000994	0	0.38620E-06	384527.8	3770066.2	121.4	0.00	1.70	0.85	YES
L0000995	0	0.38620E-06	384530.6	3770063.8	121.2	0.00	1.70	0.85	YES
L0000996	0	0.38620E-06	384533.4	3770061.4	121.1	0.00	1.70	0.85	YES
L0000997	0	0.38620E-06	384536.1	3770059.0	120.9	0.00	1.70	0.85	YES
L0000998	0	0.38620E-06	384538.9	3770056.6	120.8	0.00	1.70	0.85	YES
L0000999	0	0.38620E-06	384541.6	3770054.2	120.7	0.00	1.70	0.85	YES
L0001000	0	0.38620E-06	384544.4	3770051.8	120.6	0.00	1.70	0.85	YES
L0001001	0	0.38620E-06	384547.2	3770049.4	120.4	0.00	1.70	0.85	YES
L0001002	0	0.38620E-06	384549.9	3770047.0	120.3	0.00	1.70	0.85	YES
L0001003	0	0.38620E-06	384552.7	3770044.6	120.2	0.00	1.70	0.85	YES
L0001004	0	0.38620E-06	384555.4	3770042.2	120.0	0.00	1.70	0.85	YES
L0001005	0	0.38620E-06	384558.2	3770039.8	119.9	0.00	1.70	0.85	YES
L0001006	0	0.38620E-06	384560.9	3770037.4	119.7	0.00	1.70	0.85	YES
L0001007	0	0.38620E-06	384251.1	3770284.0	126.4	0.00	1.70	0.85	YES
L0001008	0	0.38620E-06	384253.9	3770281.6	125.9	0.00	1.70	0.85	YES
L0001009	0	0.38620E-06	384256.6	3770279.2	125.8	0.00	1.70	0.85	YES
L0001010	0	0.38620E-06	384259.4	3770276.8	125.7	0.00	1.70	0.85	YES
L0001011	0	0.38620E-06	384262.2	3770274.4	125.7	0.00	1.70	0.85	YES
L0001012	0	0.38620E-06	384264.9	3770272.0	125.8	0.00	1.70	0.85	YES
L0001013	0	0.38620E-06	384267.7	3770269.6	126.1	0.00	1.70	0.85	YES
L0001014	0	0.38620E-06	384270.5	3770267.3	126.4	0.00	1.70	0.85	YES
L0001015	0	0.38620E-06	384273.2	3770264.9	126.7	0.00	1.70	0.85	YES
L0001016	0	0.38620E-06	384276.0	3770262.5	126.9	0.00	1.70	0.85	YES
L0001017	0	0.38620E-06	384278.8	3770260.1	127.1	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY

ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0001018	0	0.38620E-06	384281.5	3770257.7	127.2	0.00	1.70	0.85	YES
L0001019	0	0.38620E-06	384284.3	3770255.3	127.3	0.00	1.70	0.85	YES
L0001020	0	0.38620E-06	384287.1	3770252.9	127.3	0.00	1.70	0.85	YES
L0001021	0	0.38620E-06	384289.8	3770250.5	127.2	0.00	1.70	0.85	YES
L0001022	0	0.38620E-06	384292.6	3770248.1	127.2	0.00	1.70	0.85	YES
L0001023	0	0.38620E-06	384295.4	3770245.7	127.0	0.00	1.70	0.85	YES
L0001024	0	0.38620E-06	384298.1	3770243.3	126.8	0.00	1.70	0.85	YES
L0001025	0	0.38620E-06	384300.9	3770240.9	126.6	0.00	1.70	0.85	YES
L0001026	0	0.38620E-06	384303.7	3770238.5	126.5	0.00	1.70	0.85	YES
L0001027	0	0.38620E-06	384306.4	3770236.1	126.6	0.00	1.70	0.85	YES
L0001028	0	0.38620E-06	384309.2	3770233.8	126.8	0.00	1.70	0.85	YES
L0001029	0	0.38620E-06	384312.0	3770231.4	126.9	0.00	1.70	0.85	YES
L0001030	0	0.38620E-06	384314.7	3770229.0	127.0	0.00	1.70	0.85	YES
L0001031	0	0.38620E-06	384317.5	3770226.6	127.0	0.00	1.70	0.85	YES
L0001032	0	0.38620E-06	384320.3	3770224.2	127.0	0.00	1.70	0.85	YES
L0001033	0	0.38620E-06	384323.0	3770221.8	126.9	0.00	1.70	0.85	YES
L0001034	0	0.38620E-06	384325.8	3770219.4	126.8	0.00	1.70	0.85	YES
L0001035	0	0.38620E-06	384328.6	3770217.0	126.6	0.00	1.70	0.85	YES
L0001036	0	0.38620E-06	384331.3	3770214.6	126.5	0.00	1.70	0.85	YES
L0001037	0	0.38620E-06	384334.1	3770212.2	126.5	0.00	1.70	0.85	YES
L0001038	0	0.38620E-06	384336.9	3770209.8	126.5	0.00	1.70	0.85	YES
L0001039	0	0.38620E-06	384339.6	3770207.4	126.6	0.00	1.70	0.85	YES
L0001040	0	0.38620E-06	384342.4	3770205.0	126.7	0.00	1.70	0.85	YES
L0001041	0	0.38620E-06	384345.2	3770202.6	126.7	0.00	1.70	0.85	YES
L0001042	0	0.38620E-06	384347.9	3770200.3	126.7	0.00	1.70	0.85	YES
L0001043	0	0.38620E-06	384350.7	3770197.9	126.7	0.00	1.70	0.85	YES
L0001044	0	0.38620E-06	384353.5	3770195.5	126.7	0.00	1.70	0.85	YES
L0001045	0	0.38620E-06	384356.2	3770193.1	126.6	0.00	1.70	0.85	YES
L0001046	0	0.38620E-06	384359.0	3770190.7	126.6	0.00	1.70	0.85	YES
L0001047	0	0.38620E-06	384361.7	3770188.3	126.5	0.00	1.70	0.85	YES
L0001048	0	0.38620E-06	384364.5	3770185.9	126.5	0.00	1.70	0.85	YES
L0001049	0	0.38620E-06	384367.3	3770183.5	126.5	0.00	1.70	0.85	YES
L0001050	0	0.38620E-06	384370.0	3770181.1	126.4	0.00	1.70	0.85	YES
L0001051	0	0.38620E-06	384372.8	3770178.7	126.4	0.00	1.70	0.85	YES
L0001052	0	0.38620E-06	384375.6	3770176.3	126.5	0.00	1.70	0.85	YES
L0001053	0	0.38620E-06	384378.3	3770173.9	126.6	0.00	1.70	0.85	YES
L0001054	0	0.38620E-06	384381.1	3770171.5	126.7	0.00	1.70	0.85	YES
L0001055	0	0.38620E-06	384383.9	3770169.1	126.7	0.00	1.70	0.85	YES
L0001056	0	0.38620E-06	384386.6	3770166.8	126.7	0.00	1.70	0.85	YES
L0001057	0	0.38620E-06	384389.4	3770164.4	126.7	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001058	0	0.38620E-06	384392.2	3770162.0	126.7	0.00	1.70	0.85	YES	
L0001059	0	0.38620E-06	384394.9	3770159.6	126.6	0.00	1.70	0.85	YES	
L0001060	0	0.38620E-06	384397.7	3770157.2	126.5	0.00	1.70	0.85	YES	
L0001061	0	0.38620E-06	384400.5	3770154.8	126.4	0.00	1.70	0.85	YES	
L0001062	0	0.38620E-06	384403.2	3770152.4	126.2	0.00	1.70	0.85	YES	
L0001063	0	0.38620E-06	384406.0	3770150.0	126.0	0.00	1.70	0.85	YES	
L0001064	0	0.38620E-06	384408.8	3770147.6	125.9	0.00	1.70	0.85	YES	
L0001065	0	0.38620E-06	384411.5	3770145.2	125.9	0.00	1.70	0.85	YES	
L0001066	0	0.38620E-06	384414.3	3770142.8	125.9	0.00	1.70	0.85	YES	
L0001067	0	0.38620E-06	384417.1	3770140.4	125.8	0.00	1.70	0.85	YES	
L0001068	0	0.38620E-06	384419.8	3770138.0	125.7	0.00	1.70	0.85	YES	
L0001069	0	0.38620E-06	384422.6	3770135.6	125.7	0.00	1.70	0.85	YES	
L0001070	0	0.38620E-06	384425.4	3770133.2	125.6	0.00	1.70	0.85	YES	
L0001071	0	0.38620E-06	384428.1	3770130.9	125.5	0.00	1.70	0.85	YES	
L0001072	0	0.38620E-06	384430.9	3770128.5	125.3	0.00	1.70	0.85	YES	
L0001073	0	0.38620E-06	384433.7	3770126.1	125.2	0.00	1.70	0.85	YES	
L0001074	0	0.38620E-06	384436.4	3770123.7	125.1	0.00	1.70	0.85	YES	
L0001075	0	0.38620E-06	384439.2	3770121.3	125.0	0.00	1.70	0.85	YES	
L0001076	0	0.38620E-06	384442.0	3770118.9	124.9	0.00	1.70	0.85	YES	
L0001077	0	0.38620E-06	384444.7	3770116.5	124.8	0.00	1.70	0.85	YES	
L0001078	0	0.38620E-06	384447.5	3770114.1	124.6	0.00	1.70	0.85	YES	
L0001079	0	0.38620E-06	384450.3	3770111.7	124.5	0.00	1.70	0.85	YES	
L0001080	0	0.38620E-06	384453.0	3770109.3	124.3	0.00	1.70	0.85	YES	
L0001081	0	0.38620E-06	384455.8	3770106.9	124.2	0.00	1.70	0.85	YES	
L0001082	0	0.38620E-06	384458.6	3770104.5	124.2	0.00	1.70	0.85	YES	
L0001083	0	0.38620E-06	384461.3	3770102.1	124.0	0.00	1.70	0.85	YES	
L0001084	0	0.38620E-06	384464.1	3770099.7	123.9	0.00	1.70	0.85	YES	
L0001085	0	0.38620E-06	384466.9	3770097.4	123.8	0.00	1.70	0.85	YES	
L0001086	0	0.38620E-06	384469.6	3770095.0	123.7	0.00	1.70	0.85	YES	
L0001087	0	0.38620E-06	384472.4	3770092.6	123.6	0.00	1.70	0.85	YES	
L0001088	0	0.38620E-06	384475.2	3770090.2	123.5	0.00	1.70	0.85	YES	
L0001089	0	0.38620E-06	384477.9	3770087.8	123.3	0.00	1.70	0.85	YES	
L0001090	0	0.38620E-06	384480.7	3770085.4	123.2	0.00	1.70	0.85	YES	
L0001091	0	0.38620E-06	384483.5	3770083.0	122.8	0.00	1.70	0.85	YES	
L0001092	0	0.38620E-06	384486.2	3770080.6	122.5	0.00	1.70	0.85	YES	
L0001093	0	0.38620E-06	384489.0	3770078.2	122.2	0.00	1.70	0.85	YES	
L0001094	0	0.38620E-06	384491.8	3770075.8	121.9	0.00	1.70	0.85	YES	
L0001095	0	0.38620E-06	384494.5	3770073.4	121.8	0.00	1.70	0.85	YES	
L0001096	0	0.38620E-06	384497.3	3770071.0	121.6	0.00	1.70	0.85	YES	
L0001097	0	0.38620E-06	384500.1	3770068.6	121.6	0.00	1.70	0.85	YES	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001098	0	0.38620E-06	384502.8	3770066.2	121.6	0.00	1.70	0.85	YES	
L0001099	0	0.38620E-06	384505.6	3770063.9	121.7	0.00	1.70	0.85	YES	
L0001100	0	0.38620E-06	384508.4	3770061.5	121.8	0.00	1.70	0.85	YES	
L0001101	0	0.38620E-06	384511.1	3770059.1	121.7	0.00	1.70	0.85	YES	
L0001102	0	0.38620E-06	384513.9	3770056.7	121.6	0.00	1.70	0.85	YES	
L0001103	0	0.38620E-06	384516.7	3770054.3	121.5	0.00	1.70	0.85	YES	
L0001104	0	0.38620E-06	384519.4	3770051.9	121.0	0.00	1.70	0.85	YES	
L0001105	0	0.38620E-06	384522.2	3770049.5	120.7	0.00	1.70	0.85	YES	
L0001106	0	0.38620E-06	384525.0	3770047.1	120.5	0.00	1.70	0.85	YES	
L0001107	0	0.38620E-06	384527.7	3770044.7	120.4	0.00	1.70	0.85	YES	
L0001108	0	0.38620E-06	384530.5	3770042.3	120.4	0.00	1.70	0.85	YES	
L0001109	0	0.38620E-06	384533.2	3770039.9	120.5	0.00	1.70	0.85	YES	
L0001110	0	0.38620E-06	384536.0	3770037.5	120.5	0.00	1.70	0.85	YES	
L0001111	0	0.38620E-06	384538.8	3770035.1	120.3	0.00	1.70	0.85	YES	
L0001112	0	0.38620E-06	384541.5	3770032.7	120.2	0.00	1.70	0.85	YES	
L0001113	0	0.38620E-06	384544.3	3770030.3	120.1	0.00	1.70	0.85	YES	
L0001114	0	0.38620E-06	384547.1	3770028.0	120.0	0.00	1.70	0.85	YES	
L0001115	0	0.38620E-06	384549.8	3770025.6	119.8	0.00	1.70	0.85	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0000898 , L0000899 , L0000900 , L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
	L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
	L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
	L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , L0000929 ,
	L0000930 , L0000931 , L0000932 , L0000933 , L0000934 , L0000935 , L0000936 , L0000937 ,
	L0000938 , L0000939 , L0000940 , L0000941 , L0000942 , L0000943 , L0000944 , L0000945 ,

L0000946 , L0000947 , L0000948 , L0000949 , L0000950 , L0000951 , L0000952 , L0000953 ,

L0000954 , L0000955 , L0000956 , L0000957 , L0000958 , L0000959 , L0000960 , L0000961 ,

L0000962 , L0000963 , L0000964 , L0000965 , L0000966 , L0000967 , L0000968 , L0000969 ,

L0000970 , L0000971 , L0000972 , L0000973 , L0000974 , L0000975 , L0000976 , L0000977 ,

L0000978 , L0000979 , L0000980 , L0000981 , L0000982 , L0000983 , L0000984 , L0000985 ,

L0000986 , L0000987 , L0000988 , L0000989 , L0000990 , L0000991 , L0000992 , L0000993 ,

L0000994 , L0000995 , L0000996 , L0000997 , L0000998 , L0000999 , L0001000 , L0001001 ,

L0001002 , L0001003 , L0001004 , L0001005 , L0001006 , L0001007 , L0001008 , L0001009 ,

L0001010 , L0001011 , L0001012 , L0001013 , L0001014 , L0001015 , L0001016 , L0001017 ,

L0001018 , L0001019 , L0001020 , L0001021 , L0001022 , L0001023 , L0001024 , L0001025 ,

L0001026 , L0001027 , L0001028 , L0001029 , L0001030 , L0001031 , L0001032 , L0001033 ,

L0001034 , L0001035 , L0001036 , L0001037 , L0001038 , L0001039 , L0001040 , L0001041 ,

L0001042 , L0001043 , L0001044 , L0001045 , L0001046 , L0001047 , L0001048 , L0001049 ,

L0001050 , L0001051 , L0001052 , L0001053 , L0001054 , L0001055 , L0001056 , L0001057 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs

L0001058 , L0001059 , L0001060 , L0001061 , L0001062 , L0001063 , L0001064 , L0001065 ,

L0001066 , L0001067 , L0001068 , L0001069 , L0001070 , L0001071 , L0001072 , L0001073 ,

L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 ,

L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 ,

L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	L0000898 , L0000899 , L0000900 , L0000901 , L0000902 , L0000903 , L0000904 , L0000905 ,
		L0000906 , L0000907 , L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 ,
		L0000914 , L0000915 , L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 ,
		L0000922 , L0000923 , L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , L0000929 ,
		L0000930 , L0000931 , L0000932 , L0000933 , L0000934 , L0000935 , L0000936 , L0000937 ,
		L0000938 , L0000939 , L0000940 , L0000941 , L0000942 , L0000943 , L0000944 , L0000945 ,
		L0000946 , L0000947 , L0000948 , L0000949 , L0000950 , L0000951 , L0000952 , L0000953 ,
		L0000954 , L0000955 , L0000956 , L0000957 , L0000958 , L0000959 , L0000960 , L0000961 ,
		L0000962 , L0000963 , L0000964 , L0000965 , L0000966 , L0000967 , L0000968 , L0000969 ,
		L0000970 , L0000971 , L0000972 , L0000973 , L0000974 , L0000975 , L0000976 , L0000977 ,
		L0000978 , L0000979 , L0000980 , L0000981 , L0000982 , L0000983 , L0000984 , L0000985 ,
		L0000986 , L0000987 , L0000988 , L0000989 , L0000990 , L0000991 , L0000992 , L0000993 ,
		L0000994 , L0000995 , L0000996 , L0000997 , L0000998 , L0000999 , L0001000 , L0001001 ,
		L0001002 , L0001003 , L0001004 , L0001005 , L0001006 , L0001007 , L0001008 , L0001009 ,
		L0001010 , L0001011 , L0001012 , L0001013 , L0001014 , L0001015 , L0001016 , L0001017 ,
		L0001018 , L0001019 , L0001020 , L0001021 , L0001022 , L0001023 , L0001024 , L0001025 ,
		L0001098 , L0001099 , L0001100 , L0001101 , L0001102 , L0001103 , L0001104 , L0001105 ,
		L0001106 , L0001107 , L0001108 , L0001109 , L0001110 , L0001111 , L0001112 , L0001113 ,
		L0001114 , L0001115 ,

L0001026 , L0001027 , L0001028 , L0001029 , L0001030 , L0001031 , L0001032 , L0001033 ,

L0001034 , L0001035 , L0001036 , L0001037 , L0001038 , L0001039 , L0001040 , L0001041 ,

L0001042 , L0001043 , L0001044 , L0001045 , L0001046 , L0001047 , L0001048 , L0001049 ,

L0001050 , L0001051 , L0001052 , L0001053 , L0001054 , L0001055 , L0001056 , L0001057 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0001058 , L0001059 , L0001060 , L0001061 , L0001062 , L0001063 , L0001064 , L0001065 ,

L0001066 , L0001067 , L0001068 , L0001069 , L0001070 , L0001071 , L0001072 , L0001073 ,

L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 ,

L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 ,

L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 ,

L0001098 , L0001099 , L0001100 , L0001101 , L0001102 , L0001103 , L0001104 , L0001105 ,

L0001106 , L0001107 , L0001108 , L0001109 , L0001110 , L0001111 , L0001112 , L0001113 ,

L0001114 , L0001115 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

384229.9, 384246.6, 384263.3, 384280.0, 384296.8, 384313.5, 384330.2, 384346.9, 384363.6, 384380.3,
384397.1, 384413.8, 384430.5, 384447.2, 384464.0, 384480.7, 384497.4, 384514.1, 384530.8, 384547.5,
384564.3,

*** Y-COORDINATES OF GRID ***
(METERS)

3769956.5, 3769973.8, 3769991.1, 3770008.4, 3770025.7, 3770043.0, 3770060.3, 3770077.6, 3770094.9, 3770112.2,
3770129.5, 3770146.8, 3770164.1, 3770181.4, 3770198.7, 3770216.0, 3770233.3, 3770250.6, 3770267.9, 3770285.2,
3770302.5,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384229.87	384246.59	384263.31	384280.03	384296.75	384313.47	384330.19	384346.91	384363.63
3770302.50	126.20	126.40	127.50	129.40	132.30	134.10	134.20	134.50	134.90
3770285.20	129.00	126.90	126.40	127.50	129.00	131.00	133.20	133.80	134.20
3770267.90	130.70	127.70	126.30	126.40	126.70	128.30	131.80	132.70	133.40
3770250.60	130.50	129.30	128.40	127.80	126.90	127.10	128.70	130.60	132.20
3770233.30	131.40	130.30	129.40	128.60	127.40	126.80	126.80	128.80	130.40
3770216.00	133.30	130.70	129.30	128.90	128.40	127.60	126.50	127.20	127.80
3770198.70	134.20	131.90	130.10	128.80	128.40	127.80	126.90	126.70	126.70
3770181.40	134.70	133.30	131.10	128.40	128.10	127.80	127.50	126.80	126.40
3770164.10	135.00	133.60	131.30	128.60	127.70	127.10	126.70	126.50	126.60
3770146.80	135.10	133.60	131.40	128.90	127.50	126.50	125.80	126.10	126.60
3770129.50	134.40	132.60	131.00	129.60	127.70	126.20	125.10	124.90	125.20
3770112.20	133.80	132.10	131.00	130.30	128.10	126.30	125.00	124.00	123.90
3770094.90	133.60	132.40	131.70	131.00	128.90	127.30	126.20	124.00	122.80
3770077.60	133.90	133.40	132.70	131.90	130.00	128.60	127.40	124.20	122.20
3770060.30	134.30	134.60	134.10	133.00	131.20	129.90	128.70	124.60	122.00
3770043.00	135.30	135.90	135.30	133.90	132.60	131.00	129.30	125.90	123.10
3770025.70	136.30	137.10	136.30	134.90	133.90	132.10	129.70	127.50	124.80
3770008.40	135.30	136.30	136.20	135.50	134.30	132.30	129.80	127.20	124.90
3769991.10	134.30	135.30	135.80	135.80	134.30	132.30	129.80	126.90	124.80
3769973.80	133.10	134.00	134.60	134.70	133.20	131.50	129.60	126.60	123.40
3769956.50	131.80	132.60	133.20	133.30	132.00	130.30	128.30	125.80	122.10

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	135.30	134.80	134.20	134.30	133.80	132.70	130.50	129.30	128.80
3770285.20	134.90	134.60	134.50	135.20	134.50	133.10	130.40	129.00	128.50
3770267.90	134.40	134.40	134.70	135.90	135.10	133.30	130.30	128.80	128.20
3770250.60	133.20	134.00	134.70	135.40	134.30	132.60	130.20	128.70	127.80
3770233.30	131.20	132.80	134.20	134.80	133.70	132.00	129.90	128.40	127.30
3770216.00	128.10	130.80	133.20	134.10	133.30	131.70	129.20	127.80	126.90
3770198.70	126.80	128.80	130.90	132.40	131.80	130.50	128.60	127.50	126.60
3770181.40	126.50	126.70	127.80	130.20	129.70	128.80	128.20	127.40	126.50
3770164.10	126.90	126.50	126.70	127.90	127.70	127.50	127.80	127.40	126.50
3770146.80	127.40	126.50	125.90	125.70	125.90	126.40	127.40	127.40	126.50
3770129.50	126.10	126.10	125.90	125.40	125.20	125.20	125.50	125.10	124.30
3770112.20	124.60	125.20	125.30	124.70	124.50	124.30	123.90	123.20	122.50
3770094.90	122.50	122.70	123.00	123.30	123.70	123.80	123.50	122.90	122.40
3770077.60	121.20	121.10	121.20	121.70	122.10	122.30	122.10	122.20	122.10
3770060.30	120.70	120.20	119.90	119.90	119.80	119.60	119.50	120.80	121.70
3770043.00	121.00	119.80	119.00	118.50	118.20	117.80	117.60	118.40	119.40
3770025.70	121.60	119.60	118.20	117.30	116.90	116.40	115.90	115.40	116.30
3770008.40	122.80	119.90	117.80	116.70	116.10	115.50	114.90	114.40	114.80
3769991.10	123.20	119.80	117.60	116.30	115.40	114.60	114.00	113.60	113.40
3769973.80	120.00	118.70	117.80	117.30	115.20	113.80	113.30	112.80	112.40
3769956.50	117.90	117.90	117.80	117.80	115.50	113.80	112.70	112.00	111.40

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	384530.83	384547.55	384564.27
3770302.50	130.30	131.80	133.10
3770285.20	129.90	131.90	133.80
3770267.90	129.60	132.10	134.80
3770250.60	128.30	131.20	134.80
3770233.30	127.20	130.40	134.60
3770216.00	126.50	129.70	134.10
3770198.70	125.80	129.00	133.50
3770181.40	125.20	128.30	132.80
3770164.10	124.60	126.00	128.80
3770146.80	124.10	123.10	123.80
3770129.50	122.90	122.30	122.60

3770112.20	121.90	121.60	121.20
3770094.90	121.70	120.30	118.90
3770077.60	121.50	119.70	117.90
3770060.30	121.20	120.30	118.90
3770043.00	120.50	120.30	119.40
3770025.70	119.60	119.90	119.40
3770008.40	116.80	118.00	118.80
3769991.10	113.60	115.90	117.80
3769973.80	112.10	112.90	113.80
3769956.50	110.90	110.60	110.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 384229.87	384246.59	384263.31	384280.03	384296.75	384313.47	384330.19	384346.91	384363.63
3770302.50	152.60	152.60	150.00	139.20	134.20	134.10	134.20	134.50	134.90
3770285.20	130.90	139.20	147.90	139.20	135.50	134.20	133.20	133.80	134.20
3770267.90	130.70	134.50	139.20	135.50	135.50	135.50	132.90	132.70	133.40
3770250.60	130.50	134.00	134.00	134.20	135.50	135.50	134.80	133.40	132.20
3770233.30	134.00	134.00	134.00	128.60	132.90	134.80	134.80	134.80	134.80
3770216.00	134.00	134.90	134.90	128.90	128.40	127.60	134.80	134.80	134.80
3770198.70	134.20	134.90	134.90	134.90	128.40	127.80	126.90	134.50	135.10
3770181.40	134.70	133.30	134.90	135.50	132.80	127.80	127.50	126.80	134.50
3770164.10	135.00	133.60	135.50	135.50	135.50	127.10	126.70	126.50	126.60
3770146.80	135.10	133.60	135.50	135.50	135.50	135.50	125.80	126.10	126.60
3770129.50	134.40	135.50	135.50	135.50	135.50	135.50	133.10	124.90	125.20
3770112.20	133.80	134.20	131.00	130.30	131.50	137.50	137.50	137.50	123.90
3770094.90	133.60	132.40	131.70	131.00	137.50	137.50	137.50	137.50	137.50
3770077.60	133.90	133.40	132.70	131.90	137.50	137.50	137.50	137.50	137.50
3770060.30	134.30	134.60	134.10	137.50	137.50	137.50	137.50	137.50	137.50
3770043.00	135.30	135.90	137.50	137.50	137.50	137.50	137.50	137.50	137.50
3770025.70	136.30	137.10	136.30	134.90	133.90	133.60	136.30	137.50	137.50
3770008.40	135.30	136.30	136.20	135.50	134.30	136.30	136.30	137.50	137.50
3769991.10	134.30	135.30	135.80	135.80	134.30	136.30	136.30	137.50	137.50
3769973.80	133.10	134.00	134.60	134.70	136.30	136.30	136.30	136.30	137.50
3769956.50	131.80	133.60	133.20	134.50	134.50	136.30	136.30	136.30	137.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	135.30	134.80	134.20	134.30	133.80	133.30	136.30	133.30	136.30
3770285.20	134.90	134.60	134.50	135.20	134.50	133.10	136.30	136.30	136.30
3770267.90	134.40	134.40	134.70	135.90	135.10	136.30	136.30	136.30	136.30
3770250.60	133.20	134.00	134.70	135.40	134.30	136.30	136.30	136.30	136.30
3770233.30	134.50	134.50	134.20	134.80	133.70	132.00	136.30	136.30	136.30
3770216.00	136.30	134.50	133.20	134.10	133.30	131.70	135.10	136.30	136.10
3770198.70	136.30	135.10	134.00	134.00	134.00	134.00	135.10	135.10	136.10
3770181.40	135.10	135.10	135.10	134.00	134.00	134.00	134.00	132.40	136.10
3770164.10	134.00	135.10	135.10	134.00	134.00	134.00	127.80	127.40	136.10
3770146.80	127.40	134.00	134.00	135.10	134.00	134.00	127.40	127.40	136.10
3770129.50	126.10	126.10	125.90	134.00	134.00	134.00	127.70	127.70	136.10
3770112.20	125.30	126.30	126.30	124.70	124.50	124.30	127.70	134.80	136.10
3770094.90	137.50	126.30	126.30	123.30	123.70	123.80	123.50	122.90	136.10
3770077.60	137.50	137.50	133.60	122.60	123.70	123.70	123.20	122.20	134.80
3770060.30	137.50	137.50	137.50	133.60	123.70	123.70	123.70	120.80	121.70
3770043.00	137.50	137.50	137.50	137.50	136.30	123.70	134.80	134.80	134.80
3770025.70	137.50	137.50	137.50	137.50	137.50	136.30	134.80	136.10	136.10
3770008.40	137.50	137.50	137.50	137.50	137.50	137.50	136.30	134.80	136.10
3769991.10	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	134.80
3769973.80	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	136.30
3769956.50	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	136.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	384530.83	384547.55	384564.27
3770302.50	136.30	136.30	136.30
3770285.20	136.30	134.90	133.80
3770267.90	134.90	134.90	134.80
3770250.60	136.10	134.90	134.80
3770233.30	136.10	136.10	134.60
3770216.00	136.10	136.10	134.10
3770198.70	136.10	136.10	136.10
3770181.40	136.10	136.10	132.80

3770164.10	136.10	136.10	136.10
3770146.80	136.10	136.10	136.10
3770129.50	136.10	136.10	136.10
3770112.20	136.10	136.10	136.10
3770094.90	136.10	136.10	136.10
3770077.60	136.10	136.10	136.10
3770060.30	134.80	136.10	136.10
3770043.00	120.50	134.80	136.10
3770025.70	120.20	119.90	134.80
3770008.40	134.80	120.20	118.80
3769991.10	136.10	120.20	117.80
3769973.80	134.80	134.80	134.80
3769956.50	134.80	136.10	136.10

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(384316.8, 3770081.4, 128.1, 137.5, 0.0); (384338.4, 3770053.1, 127.0, 137.5, 0.0);
(384290.3, 3770038.6, 133.4, 137.5, 0.0); (384317.7, 3770025.8, 131.5, 133.6, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0000903	384280.0	3770285.2	-0.40
L0000904	384280.0	3770285.2	-0.81
L0000909	384296.8	3770267.9	0.55
L0000910	384296.8	3770267.9	-3.02
L0000911	384296.8	3770267.9	-0.51
L0000916	384313.5	3770250.6	-0.58
L0000917	384313.5	3770250.6	-1.62
L0000923	384330.2	3770233.3	0.24
L0000939	384380.3	3770198.7	0.59
L0000940	384380.3	3770198.7	-0.52
L0000946	384397.1	3770181.4	-2.01
L0000947	384397.1	3770181.4	-1.12

L0000952	384413.8	3770164.1	-0.14
L0000953	384413.8	3770164.1	-2.53
L0000954	384413.8	3770164.1	0.46
L0000959	384430.5	3770146.8	-0.07
L0000960	384430.5	3770146.8	0.05
L0000976	384480.7	3770112.2	0.04
L0000982	384497.4	3770094.9	-1.00
L0000983	384497.4	3770094.9	-1.41
L0000988	384514.1	3770077.6	0.50
L0000989	384514.1	3770077.6	-3.00
L0000990	384514.1	3770077.6	-0.44
L0000995	384530.8	3770060.3	-0.11
L0000996	384530.8	3770060.3	-0.88
L0001012	384263.3	3770267.9	0.79
L0001028	384313.5	3770233.3	0.65
L0001029	384313.5	3770233.3	-1.20
L0001030	384313.5	3770233.3	0.85
L0001035	384330.2	3770216.0	-1.74
L0001036	384330.2	3770216.0	-1.86
L0001041	384346.9	3770198.7	0.66
L0001042	384346.9	3770198.7	-1.80
L0001043	384346.9	3770198.7	0.21
L0001048	384363.6	3770181.4	0.93
L0001049	384363.6	3770181.4	0.56
L0001065	384413.8	3770146.8	-0.90
L0001066	384413.8	3770146.8	0.36
L0001071	384430.5	3770129.5	-0.92
L0001072	384430.5	3770129.5	-2.55

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0001078	384447.2	3770112.2	-1.73
L0001079	384447.2	3770112.2	-0.58
L0001085	384464.0	3770094.9	0.15
L0001101	384514.1	3770060.3	-0.42
L0001102	384514.1	3770060.3	-0.02
L0001107	384530.8	3770043.0	-0.11
L0001108	384530.8	3770043.0	-2.89
L0001109	384530.8	3770043.0	0.26
L0001114	384547.5	3770025.7	-1.35

L0001115 384547.5 3770025.7 -1.35

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: E:\New MET data\CELA_V9_ADJU\CELA_v9.SFC Met Version: 16216
Profile file: E:\New MET data\CELA_V9_ADJU\CELA_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93134 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-33.0	0.331	-9.000	-9.000	-999.	456.	120.2	0.56	0.86	1.00	3.10	38.	21.3	284.9	17.7
10	01	01	1	02	-26.9	0.285	-9.000	-9.000	-999.	367.	89.6	0.56	0.86	1.00	2.70	38.	21.3	284.2	17.7
10	01	01	1	03	-38.6	0.387	-9.000	-9.000	-999.	577.	164.6	0.56	0.86	1.00	3.60	35.	21.3	284.2	17.7
10	01	01	1	04	-33.0	0.331	-9.000	-9.000	-999.	458.	120.2	0.56	0.86	1.00	3.10	34.	21.3	283.8	17.7
10	01	01	1	05	-33.1	0.331	-9.000	-9.000	-999.	456.	120.2	0.56	0.86	1.00	3.10	37.	21.3	283.1	17.7

```
10 01 01   1 06  -38.7  0.387 -9.000 -9.000 -999.  577.    164.5  0.56   0.86   1.00    3.60   24.   21.3  283.1   17.7
10 01 01   1 07  -38.6  0.387 -9.000 -9.000 -999.  577.    164.5  0.56   0.86   1.00    3.60   35.   21.3  283.8   17.7
10 01 01   1 08  -29.6  0.435 -9.000 -9.000 -999.  688.    251.8  0.56   0.86   0.55    4.00   35.   21.3  283.8   17.7
10 01 01   1 09   30.0  0.426  0.367  0.008   59.  666.   -232.0  0.56   0.86   0.32    3.60   38.   21.3  286.4   17.7
10 01 01   1 10   72.3  0.359  0.629  0.008  124.  519.    -57.8  0.56   0.86   0.24    2.70   34.   21.3  290.4   17.7
10 01 01   1 11  104.4  0.321  0.998  0.008  344.  437.    -28.6  0.56   0.86   0.21    2.20   43.   21.3  292.5   17.7
10 01 01   1 12  115.1  0.283  1.156  0.008  484.  363.    -17.9  0.56   0.86   0.20    1.80   62.   21.3  295.9   17.7
10 01 01   1 13   91.4  0.406  1.130  0.008  568.  622.    -66.2  0.56   0.86   0.20    3.10  263.   21.3  294.2   17.7
10 01 01   1 14   89.3  0.316  1.168  0.008  642.  432.    -31.9  0.56   0.86   0.21    2.20  259.   21.3  294.9   17.7
10 01 01   1 15   42.6  0.295  0.928  0.008  675.  384.    -54.0  0.56   0.86   0.25    2.20  267.   21.3  294.9   17.7
10 01 01   1 16   12.0  0.359  0.609  0.008  680.  516.   -347.9  0.56   0.86   0.33    3.10  264.   21.3  292.5   17.7
10 01 01   1 17  -15.7  0.231 -9.000 -9.000 -999.  276.     70.7  0.56   0.86   0.60    2.20  288.   21.3  290.9   17.7
10 01 01   1 18   -6.1  0.135 -9.000 -9.000 -999.  124.     36.7  0.56   0.86   1.00    1.30  344.   21.3  289.2   17.7
10 01 01   1 19  -11.4  0.184 -9.000 -9.000 -999.  190.     49.2  0.56   0.86   1.00    1.80    2.   21.3  288.8   17.7
10 01 01   1 20  -17.4  0.229 -9.000 -9.000 -999.  263.     62.1  0.56   0.86   1.00    2.20   22.   21.3  288.1   17.7
10 01 01   1 21  -17.4  0.229 -9.000 -9.000 -999.  263.     61.9  0.56   0.86   1.00    2.20   40.   21.3  287.0   17.7
10 01 01   1 22  -11.5  0.184 -9.000 -9.000 -999.  190.     49.1  0.56   0.86   1.00    1.80  306.   21.3  287.0   17.7
10 01 01   1 23  -11.5  0.184 -9.000 -9.000 -999.  190.     49.0  0.56   0.86   1.00    1.80   45.   21.3  286.4   17.7
10 01 01   1 24  -11.5  0.184 -9.000 -9.000 -999.  190.     49.0  0.56   0.86   1.00    1.80   67.   21.3  286.4   17.7


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
10 01 01 01   17.7 0 -999.  -99.00   284.9   99.0  -99.00  -99.00
10 01 01 01   21.3 1   38.    3.10  -999.0   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court 2 yr\7427 Firmin Crt 14yr.i   ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations 1st 14 yrs                                       ***        10:50:22
                                                                                                                   PAGE  24
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     L0000898    , L0000899    , L0000900    , L0000901    , L0000902    ,
                L0000903    , L0000904    , L0000905    , L0000906    , L0000907    , L0000908    , L0000909    , L0000910    ,
                L0000911    , L0000912    , L0000913    , L0000914    , L0000915    , L0000916    , L0000917    , L0000918    ,
                L0000919    , L0000920    , L0000921    , L0000922    , L0000923    , L0000924    , L0000925    ,  . . .      ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3                        **

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |    384229.87    384246.59    384263.31    384280.03    384296.75    384313.47    384330.19    384346.91    384363.63
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3770302.50 |       0.00454      0.00775      0.01833      0.01164      0.00798      0.00616      0.00522      0.00451      0.00394
 3770285.20 |       0.00563      0.02092      0.03028      0.02937      0.01647      0.01009      0.00743      0.00599      0.00503
 3770267.90 |       0.00545      0.01151      0.03320      0.03835      0.02752      0.02043      0.01149      0.00839      0.00661
 3770250.60 |       0.00474      0.00749      0.01315      0.03197      0.04752      0.03649      0.02442      0.01308      0.00917
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3770233.30	0.00400	0.00563	0.00823	0.01298	0.02625	0.02951	0.04276	0.03021	0.01456
3770216.00	0.00337	0.00452	0.00609	0.00840	0.01243	0.02244	0.03680	0.04317	0.03958
3770198.70	0.00293	0.00374	0.00480	0.00625	0.00832	0.01183	0.01974	0.02793	0.04038
3770181.40	0.00259	0.00317	0.00394	0.00497	0.00626	0.00813	0.01120	0.01764	0.03044
3770164.10	0.00232	0.00277	0.00335	0.00409	0.00500	0.00619	0.00789	0.01060	0.01596
3770146.80	0.00209	0.00246	0.00290	0.00346	0.00413	0.00496	0.00605	0.00760	0.01002
3770129.50	0.00192	0.00222	0.00256	0.00297	0.00349	0.00411	0.00487	0.00587	0.00728
3770112.20	0.00176	0.00201	0.00228	0.00259	0.00300	0.00347	0.00403	0.00473	0.00566
3770094.90	0.00161	0.00181	0.00203	0.00229	0.00260	0.00298	0.00341	0.00393	0.00457
3770077.60	0.00147	0.00163	0.00182	0.00203	0.00228	0.00257	0.00292	0.00332	0.00379
3770060.30	0.00135	0.00148	0.00163	0.00181	0.00202	0.00225	0.00252	0.00285	0.00320
3770043.00	0.00123	0.00133	0.00146	0.00162	0.00179	0.00198	0.00220	0.00247	0.00275
3770025.70	0.00113	0.00121	0.00132	0.00145	0.00159	0.00176	0.00194	0.00215	0.00237
3770008.40	0.00105	0.00112	0.00121	0.00131	0.00143	0.00157	0.00173	0.00189	0.00207
3769991.10	0.00098	0.00105	0.00112	0.00119	0.00130	0.00141	0.00154	0.00167	0.00181
3769973.80	0.00092	0.00098	0.00104	0.00110	0.00119	0.00128	0.00138	0.00149	0.00160
3769956.50	0.00086	0.00091	0.00096	0.00102	0.00109	0.00117	0.00125	0.00133	0.00142

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000898 , L0000899 , L0000900 , L0000901 , L0000902 ,
L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 ,
L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 ,
L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	0.00349	0.00316	0.00288	0.00262	0.00240	0.00222	0.00205	0.00189	0.00174
3770285.20	0.00430	0.00380	0.00339	0.00301	0.00274	0.00252	0.00232	0.00212	0.00194
3770267.90	0.00541	0.00463	0.00401	0.00347	0.00313	0.00287	0.00263	0.00238	0.00216
3770250.60	0.00711	0.00577	0.00483	0.00413	0.00369	0.00333	0.00300	0.00268	0.00241
3770233.30	0.00992	0.00756	0.00602	0.00501	0.00439	0.00390	0.00345	0.00305	0.00271
3770216.00	0.01656	0.01066	0.00788	0.00625	0.00532	0.00461	0.00402	0.00349	0.00307
3770198.70	0.03315	0.01832	0.01135	0.00838	0.00674	0.00560	0.00475	0.00406	0.00351
3770181.40	0.04160	0.03661	0.02095	0.01224	0.00895	0.00704	0.00575	0.00481	0.00408
3770164.10	0.03507	0.04827	0.03027	0.02407	0.01350	0.00948	0.00727	0.00586	0.00484
3770146.80	0.01451	0.02798	0.03753	0.03605	0.02918	0.01469	0.00990	0.00746	0.00593
3770129.50	0.00946	0.01337	0.02347	0.03839	0.04648	0.03667	0.01599	0.01046	0.00768
3770112.20	0.00696	0.00892	0.01232	0.02024	0.03580	0.04147	0.03892	0.01763	0.01094
3770094.90	0.00542	0.00659	0.00835	0.01131	0.01776	0.03874	0.04152	0.03492	0.01953
3770077.60	0.00437	0.00515	0.00621	0.00779	0.01039	0.01565	0.03499	0.04668	0.02911

3770060.30	0.00363	0.00416	0.00486	0.00580	0.00717	0.00933	0.01350	0.02712	0.03523
3770043.00	0.00306	0.00344	0.00392	0.00452	0.00533	0.00647	0.00824	0.01168	0.02115
3770025.70	0.00262	0.00289	0.00322	0.00362	0.00413	0.00478	0.00566	0.00694	0.00933
3770008.40	0.00226	0.00246	0.00269	0.00296	0.00329	0.00368	0.00415	0.00473	0.00552
3769991.10	0.00196	0.00211	0.00227	0.00246	0.00267	0.00290	0.00316	0.00343	0.00369
3769973.80	0.00170	0.00182	0.00195	0.00208	0.00221	0.00234	0.00248	0.00261	0.00270
3769956.50	0.00149	0.00158	0.00168	0.00178	0.00186	0.00194	0.00201	0.00206	0.00209

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000898 , L0000899 , L0000900 , L0000901 , L0000902 ,
L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 ,
L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 ,
L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 384530.83	384547.55	384564.27
3770302.50	0.00161	0.00148	0.00136
3770285.20	0.00178	0.00162	0.00147
3770267.90	0.00197	0.00178	0.00159
3770250.60	0.00218	0.00197	0.00174
3770233.30	0.00243	0.00218	0.00190
3770216.00	0.00272	0.00243	0.00209
3770198.70	0.00307	0.00272	0.00232
3770181.40	0.00350	0.00306	0.00258
3770164.10	0.00406	0.00348	0.00299
3770146.80	0.00482	0.00398	0.00335
3770129.50	0.00593	0.00471	0.00383
3770112.20	0.00776	0.00581	0.00449
3770094.90	0.01130	0.00761	0.00542
3770077.60	0.02183	0.01124	0.00692
3770060.30	0.03504	0.02427	0.01011
3770043.00	0.02695	0.04372	0.02121
3770025.70	0.01594	0.01919	0.01092
3770008.40	0.00665	0.00716	0.00554
3769991.10	0.00387	0.00389	0.00348
3769973.80	0.00271	0.00264	0.00244
3769956.50	0.00206	0.00199	0.00186

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000898 , L0000899 , L0000900 , L0000901 , L0000902 ,
L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 ,
L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 ,
L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
384316.78	3770081.36	0.00272	384338.40	3770053.13	0.00253
384290.31	3770038.57	0.00167	384317.67	3770025.77	0.00180

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.04827 AT	(384397.07, 3770164.10, 126.50, 135.10, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.04752 AT	(384296.75, 3770250.60, 126.90, 135.50, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.04668 AT	(384497.39, 3770077.60, 122.20, 122.20, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.04648 AT	(384447.23, 3770129.50, 125.20, 134.00, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.04372 AT	(384547.55, 3770043.00, 120.30, 134.80, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.04317 AT	(384346.91, 3770216.00, 127.20, 134.80, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.04276 AT	(384330.19, 3770233.30, 126.80, 134.80, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.04160 AT	(384380.35, 3770181.40, 126.50, 135.10, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.04152 AT	(384480.67, 3770094.90, 123.50, 123.50, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.04147 AT	(384463.95, 3770112.20, 124.30, 124.30, 0.00)	GC	UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 4 Warning Message(s)
A Total of 808 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 804 Missing Hours Identified (1.83 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

ME W186	535	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	535	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	
MX W450	17521	CHKDAT: Record Out of Sequence in Meteorological File at:	14010101
MX W450	17521	CHKDAT: Record Out of Sequence in Meteorological File at:	2 year gap

****
*** AERMOD Finishes Successfully ***
****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.0
** Lakes Environmental Software Inc.
** Date: 7/27/2018
** File: C:\Lakes\AERMOD View\7427 Firmin Court 2nd 14 years\7427 Firmin Court 2nd 14 years.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\7427 Firmin Court 2nd 14 yrs.i
   TITLETWO DPM concentrations 2nd 14 yrs
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "7427 Firmin Court 2nd 14 years.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC WB 101 FWY
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000253
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 384261.633, 3770298.000, 126.94, 0.00, 1.70
** 384561.659, 3770036.801, 119.57, 0.00, 1.70
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LOCATION L0001117     VOLUME   384265.771 3770294.398 127.20
LOCATION L0001118     VOLUME   384268.529 3770291.996 127.26
LOCATION L0001119     VOLUME   384271.288 3770289.594 127.28
LOCATION L0001120     VOLUME   384274.047 3770287.193 127.26
LOCATION L0001121     VOLUME   384276.805 3770284.791 127.21
LOCATION L0001122     VOLUME   384279.564 3770282.389 127.11
LOCATION L0001123     VOLUME   384282.323 3770279.988 127.02
LOCATION L0001124     VOLUME   384285.081 3770277.586 126.89
LOCATION L0001125     VOLUME   384287.840 3770275.185 126.70
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LOCATION L0001127     VOLUME   384293.357 3770270.381 126.57
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LOCATION L0001130     VOLUME   384301.633 3770263.176 126.72
LOCATION L0001131     VOLUME   384304.392 3770260.775 126.66
LOCATION L0001132     VOLUME   384307.150 3770258.373 126.74
LOCATION L0001133     VOLUME   384309.909 3770255.971 127.02
LOCATION L0001134     VOLUME   384312.668 3770253.570 127.21
LOCATION L0001135     VOLUME   384315.426 3770251.168 127.31
LOCATION L0001136     VOLUME   384318.185 3770248.766 127.33
LOCATION L0001137     VOLUME   384320.944 3770246.365 127.26
LOCATION L0001138     VOLUME   384323.702 3770243.963 127.11
LOCATION L0001139     VOLUME   384326.461 3770241.561 126.87
LOCATION L0001140     VOLUME   384329.220 3770239.160 126.90
LOCATION L0001141     VOLUME   384331.978 3770236.758 126.99
LOCATION L0001142     VOLUME   384334.737 3770234.357 127.30
LOCATION L0001143     VOLUME   384337.495 3770231.955 127.55
LOCATION L0001144     VOLUME   384340.254 3770229.553 127.74
LOCATION L0001145     VOLUME   384343.013 3770227.152 127.87
LOCATION L0001146     VOLUME   384345.771 3770224.750 127.93
LOCATION L0001147     VOLUME   384348.530 3770222.348 127.94
LOCATION L0001148     VOLUME   384351.289 3770219.947 127.88
LOCATION L0001149     VOLUME   384354.047 3770217.545 127.77
LOCATION L0001150     VOLUME   384356.806 3770215.143 127.58
LOCATION L0001151     VOLUME   384359.565 3770212.742 127.28
LOCATION L0001152     VOLUME   384362.323 3770210.340 126.94
LOCATION L0001153     VOLUME   384365.082 3770207.938 126.88
LOCATION L0001154     VOLUME   384367.841 3770205.537 126.84
LOCATION L0001155     VOLUME   384370.599 3770203.135 126.81
LOCATION L0001156     VOLUME   384373.358 3770200.734 126.78
LOCATION L0001157     VOLUME   384376.117 3770198.332 126.74
LOCATION L0001158     VOLUME   384378.875 3770195.930 126.71
LOCATION L0001159     VOLUME   384381.634 3770193.529 126.68
LOCATION L0001160     VOLUME   384384.392 3770191.127 126.83
LOCATION L0001161     VOLUME   384387.151 3770188.725 126.94
LOCATION L0001162     VOLUME   384389.910 3770186.324 126.95
LOCATION L0001163     VOLUME   384392.668 3770183.922 126.88
LOCATION L0001164     VOLUME   384395.427 3770181.520 126.71
LOCATION L0001165     VOLUME   384398.186 3770179.119 126.46
LOCATION L0001166     VOLUME   384400.944 3770176.717 126.42
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LOCATION L0001167     VOLUME   384403.703 3770174.315 126.39
LOCATION L0001168     VOLUME   384406.462 3770171.914 126.33
LOCATION L0001169     VOLUME   384409.220 3770169.512 126.45
LOCATION L0001170     VOLUME   384411.979 3770167.110 126.64
LOCATION L0001171     VOLUME   384414.738 3770164.709 126.76
LOCATION L0001172     VOLUME   384417.496 3770162.307 126.80
LOCATION L0001173     VOLUME   384420.255 3770159.906 126.79
LOCATION L0001174     VOLUME   384423.014 3770157.504 126.70
LOCATION L0001175     VOLUME   384425.772 3770155.102 126.54
LOCATION L0001176     VOLUME   384428.531 3770152.701 126.32
LOCATION L0001177     VOLUME   384431.289 3770150.299 126.03
LOCATION L0001178     VOLUME   384434.048 3770147.897 125.70
LOCATION L0001179     VOLUME   384436.807 3770145.496 125.66
LOCATION L0001180     VOLUME   384439.565 3770143.094 125.64
LOCATION L0001181     VOLUME   384442.324 3770140.692 125.59
LOCATION L0001182     VOLUME   384445.083 3770138.291 125.54
LOCATION L0001183     VOLUME   384447.841 3770135.889 125.46
LOCATION L0001184     VOLUME   384450.600 3770133.487 125.37
LOCATION L0001185     VOLUME   384453.359 3770131.086 125.27
LOCATION L0001186     VOLUME   384456.117 3770128.684 125.14
LOCATION L0001187     VOLUME   384458.876 3770126.282 125.01
LOCATION L0001188     VOLUME   384461.635 3770123.881 124.88
LOCATION L0001189     VOLUME   384464.393 3770121.479 124.70
LOCATION L0001190     VOLUME   384467.152 3770119.078 124.50
LOCATION L0001191     VOLUME   384469.911 3770116.676 124.26
LOCATION L0001192     VOLUME   384472.669 3770114.274 124.11
LOCATION L0001193     VOLUME   384475.428 3770111.873 123.99
LOCATION L0001194     VOLUME   384478.186 3770109.471 123.87
LOCATION L0001195     VOLUME   384480.945 3770107.069 123.75
LOCATION L0001196     VOLUME   384483.704 3770104.668 123.63
LOCATION L0001197     VOLUME   384486.462 3770102.266 123.47
LOCATION L0001198     VOLUME   384489.221 3770099.864 123.32
LOCATION L0001199     VOLUME   384491.980 3770097.463 123.17
LOCATION L0001200     VOLUME   384494.738 3770095.061 123.03
LOCATION L0001201     VOLUME   384497.497 3770092.659 122.90
LOCATION L0001202     VOLUME   384500.256 3770090.258 122.77
LOCATION L0001203     VOLUME   384503.014 3770087.856 122.65
LOCATION L0001204     VOLUME   384505.773 3770085.455 122.54
LOCATION L0001205     VOLUME   384508.532 3770083.053 122.40
LOCATION L0001206     VOLUME   384511.290 3770080.651 122.25
LOCATION L0001207     VOLUME   384514.049 3770078.250 122.10
LOCATION L0001208     VOLUME   384516.808 3770075.848 121.95
LOCATION L0001209     VOLUME   384519.566 3770073.446 121.80
LOCATION L0001210     VOLUME   384522.325 3770071.045 121.66
LOCATION L0001211     VOLUME   384525.083 3770068.643 121.51
LOCATION L0001212     VOLUME   384527.842 3770066.241 121.38
LOCATION L0001213     VOLUME   384530.601 3770063.840 121.24
LOCATION L0001214     VOLUME   384533.359 3770061.438 121.11
LOCATION L0001215     VOLUME   384536.118 3770059.036 120.94
LOCATION L0001216     VOLUME   384538.877 3770056.635 120.80
LOCATION L0001217     VOLUME   384541.635 3770054.233 120.71
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   LOCATION L0001219     VOLUME   384547.153 3770049.430 120.44
   LOCATION L0001220     VOLUME   384549.911 3770047.028 120.30
   LOCATION L0001221     VOLUME   384552.670 3770044.627 120.16
   LOCATION L0001222     VOLUME   384555.429 3770042.225 120.03
   LOCATION L0001223     VOLUME   384558.187 3770039.823 119.90
   LOCATION L0001224     VOLUME   384560.946 3770037.422 119.69
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC EB 101 FWY
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000253
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 2
** 384249.720, 3770285.205, 128.88, 0.00, 1.70
** 384550.628, 3770024.888, 119.45, 0.00, 1.70
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   LOCATION L0001226     VOLUME   384253.869 3770281.615 125.93
   LOCATION L0001227     VOLUME   384256.635 3770279.222 125.75
   LOCATION L0001228     VOLUME   384259.401 3770276.829 125.74
   LOCATION L0001229     VOLUME   384262.168 3770274.436 125.70
   LOCATION L0001230     VOLUME   384264.934 3770272.043 125.79
   LOCATION L0001231     VOLUME   384267.700 3770269.650 126.12
   LOCATION L0001232     VOLUME   384270.466 3770267.257 126.41
   LOCATION L0001233     VOLUME   384273.232 3770264.864 126.67
   LOCATION L0001234     VOLUME   384275.998 3770262.471 126.89
   LOCATION L0001235     VOLUME   384278.764 3770260.078 127.07
   LOCATION L0001236     VOLUME   384281.531 3770257.685 127.20
   LOCATION L0001237     VOLUME   384284.297 3770255.292 127.27
   LOCATION L0001238     VOLUME   384287.063 3770252.899 127.29
   LOCATION L0001239     VOLUME   384289.829 3770250.506 127.25
   LOCATION L0001240     VOLUME   384292.595 3770248.113 127.16
   LOCATION L0001241     VOLUME   384295.361 3770245.720 127.02
   LOCATION L0001242     VOLUME   384298.127 3770243.327 126.83
   LOCATION L0001243     VOLUME   384300.894 3770240.934 126.63
   LOCATION L0001244     VOLUME   384303.660 3770238.541 126.55
   LOCATION L0001245     VOLUME   384306.426 3770236.148 126.57
   LOCATION L0001246     VOLUME   384309.192 3770233.755 126.76
   LOCATION L0001247     VOLUME   384311.958 3770231.362 126.89
   LOCATION L0001248     VOLUME   384314.724 3770228.969 126.98
   LOCATION L0001249     VOLUME   384317.491 3770226.576 127.01
   LOCATION L0001250     VOLUME   384320.257 3770224.183 127.00
   LOCATION L0001251     VOLUME   384323.023 3770221.790 126.93
   LOCATION L0001252     VOLUME   384325.789 3770219.397 126.81
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LOCATION L0001253     VOLUME   384328.555 3770217.004 126.65
LOCATION L0001254     VOLUME   384331.321 3770214.611 126.46
LOCATION L0001255     VOLUME   384334.087 3770212.218 126.49
LOCATION L0001256     VOLUME   384336.854 3770209.825 126.50
LOCATION L0001257     VOLUME   384339.620 3770207.432 126.60
LOCATION L0001258     VOLUME   384342.386 3770205.039 126.67
LOCATION L0001259     VOLUME   384345.152 3770202.646 126.72
LOCATION L0001260     VOLUME   384347.918 3770200.253 126.73
LOCATION L0001261     VOLUME   384350.684 3770197.860 126.72
LOCATION L0001262     VOLUME   384353.450 3770195.467 126.67
LOCATION L0001263     VOLUME   384356.217 3770193.074 126.60
LOCATION L0001264     VOLUME   384358.983 3770190.681 126.56
LOCATION L0001265     VOLUME   384361.749 3770188.288 126.53
LOCATION L0001266     VOLUME   384364.515 3770185.895 126.49
LOCATION L0001267     VOLUME   384367.281 3770183.502 126.46
LOCATION L0001268     VOLUME   384370.047 3770181.109 126.43
LOCATION L0001269     VOLUME   384372.813 3770178.716 126.41
LOCATION L0001270     VOLUME   384375.580 3770176.323 126.48
LOCATION L0001271     VOLUME   384378.346 3770173.930 126.57
LOCATION L0001272     VOLUME   384381.112 3770171.537 126.68
LOCATION L0001273     VOLUME   384383.878 3770169.144 126.73
LOCATION L0001274     VOLUME   384386.644 3770166.751 126.74
LOCATION L0001275     VOLUME   384389.410 3770164.358 126.71
LOCATION L0001276     VOLUME   384392.177 3770161.965 126.67
LOCATION L0001277     VOLUME   384394.943 3770159.572 126.59
LOCATION L0001278     VOLUME   384397.709 3770157.179 126.49
LOCATION L0001279     VOLUME   384400.475 3770154.786 126.36
LOCATION L0001280     VOLUME   384403.241 3770152.393 126.21
LOCATION L0001281     VOLUME   384406.007 3770150.000 126.03
LOCATION L0001282     VOLUME   384408.773 3770147.607 125.91
LOCATION L0001283     VOLUME   384411.540 3770145.214 125.89
LOCATION L0001284     VOLUME   384414.306 3770142.821 125.86
LOCATION L0001285     VOLUME   384417.072 3770140.428 125.81
LOCATION L0001286     VOLUME   384419.838 3770138.035 125.74
LOCATION L0001287     VOLUME   384422.604 3770135.642 125.66
LOCATION L0001288     VOLUME   384425.370 3770133.249 125.56
LOCATION L0001289     VOLUME   384428.136 3770130.856 125.45
LOCATION L0001290     VOLUME   384430.903 3770128.463 125.32
LOCATION L0001291     VOLUME   384433.669 3770126.070 125.21
LOCATION L0001292     VOLUME   384436.435 3770123.677 125.13
LOCATION L0001293     VOLUME   384439.201 3770121.284 125.03
LOCATION L0001294     VOLUME   384441.967 3770118.891 124.91
LOCATION L0001295     VOLUME   384444.733 3770116.498 124.77
LOCATION L0001296     VOLUME   384447.499 3770114.105 124.60
LOCATION L0001297     VOLUME   384450.266 3770111.712 124.45
LOCATION L0001298     VOLUME   384453.032 3770109.319 124.34
LOCATION L0001299     VOLUME   384455.798 3770106.926 124.25
LOCATION L0001300     VOLUME   384458.564 3770104.533 124.17
LOCATION L0001301     VOLUME   384461.330 3770102.140 124.04
LOCATION L0001302     VOLUME   384464.096 3770099.747 123.92
LOCATION L0001303     VOLUME   384466.863 3770097.354 123.81
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   LOCATION L0001305     VOLUME   384472.395 3770092.568 123.57
   LOCATION L0001306     VOLUME   384475.161 3770090.175 123.46
   LOCATION L0001307     VOLUME   384477.927 3770087.782 123.35
   LOCATION L0001308     VOLUME   384480.693 3770085.389 123.23
   LOCATION L0001309     VOLUME   384483.459 3770082.996 122.83
   LOCATION L0001310     VOLUME   384486.226 3770080.603 122.47
   LOCATION L0001311     VOLUME   384488.992 3770078.210 122.17
   LOCATION L0001312     VOLUME   384491.758 3770075.817 121.94
   LOCATION L0001313     VOLUME   384494.524 3770073.424 121.76
   LOCATION L0001314     VOLUME   384497.290 3770071.031 121.65
   LOCATION L0001315     VOLUME   384500.056 3770068.638 121.60
   LOCATION L0001316     VOLUME   384502.822 3770066.245 121.62
   LOCATION L0001317     VOLUME   384505.589 3770063.852 121.69
   LOCATION L0001318     VOLUME   384508.355 3770061.459 121.83
   LOCATION L0001319     VOLUME   384511.121 3770059.066 121.73
   LOCATION L0001320     VOLUME   384513.887 3770056.673 121.59
   LOCATION L0001321     VOLUME   384516.653 3770054.280 121.45
   LOCATION L0001322     VOLUME   384519.419 3770051.887 121.05
   LOCATION L0001323     VOLUME   384522.185 3770049.494 120.73
   LOCATION L0001324     VOLUME   384524.952 3770047.101 120.52
   LOCATION L0001325     VOLUME   384527.718 3770044.708 120.42
   LOCATION L0001326     VOLUME   384530.484 3770042.315 120.43
   LOCATION L0001327     VOLUME   384533.250 3770039.922 120.54
   LOCATION L0001328     VOLUME   384536.016 3770037.529 120.49
   LOCATION L0001329     VOLUME   384538.782 3770035.136 120.35
   LOCATION L0001330     VOLUME   384541.549 3770032.743 120.22
   LOCATION L0001331     VOLUME   384544.315 3770030.350 120.09
   LOCATION L0001332     VOLUME   384547.081 3770027.957 119.96
   LOCATION L0001333     VOLUME   384549.847 3770025.564 119.84
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** Source Parameters **
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** ------------------------------------------------------------------
   URBANSRC ALL
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   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "7427 Firmin Court 2nd 14 years.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
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   PROFFILE "E:\New MET data\CELA_V9_ADJU\CELA_v9.PFL"
   SURFDATA 93134 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 87.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "7427 FIRMIN COURT 2ND 14 YEARS.AD\AN00GALL.PLT" 31
   SUMMFILE "7427 Firmin Court 2nd 14 years.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***
```

```
   ********   WARNING MESSAGES   ********
ME W186     535       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     535       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

**********************************
*** SETUP Finishes Successfully ***
**********************************


*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court 2nd 14 yrs.i                 ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2nd 14 yrs                                      ***        11:52:49
                                                                                                                 PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for   218 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates ANNUAL Averages Only

**This Run Includes:    218 Source(s);       1 Source Group(s); and     445 Receptor(s)

              with:      0 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
```

```
               and:    218 VOLUME source(s)
               and:      0 AREA type source(s)
               and:      0 LINE source(s)
               and:      0 OPENPIT source(s)
               and:      0 BUOYANT LINE source(s) with      0 line(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of ANNUAL Averages by Receptor
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    87.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                           ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   7427 Firmin Court 2nd 14 years.err
**File for Summary of Results:   7427 Firmin Court 2nd 14 years.sum

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court 2nd 14 yrs.i                 ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2nd 14 yrs                                      ***        11:52:49
                                                                                                                  PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.               (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0001116         0   0.23210E-06  384263.0 3770296.8   127.1     0.00     1.70     0.85     YES
L0001117         0   0.23210E-06  384265.8 3770294.4   127.2     0.00     1.70     0.85     YES
L0001118         0   0.23210E-06  384268.5 3770292.0   127.3     0.00     1.70     0.85     YES
L0001119         0   0.23210E-06  384271.3 3770289.6   127.3     0.00     1.70     0.85     YES
L0001120         0   0.23210E-06  384274.0 3770287.2   127.3     0.00     1.70     0.85     YES
L0001121         0   0.23210E-06  384276.8 3770284.8   127.2     0.00     1.70     0.85     YES
```

L0001122	0	0.23210E-06	384279.6	3770282.4	127.1	0.00	1.70	0.85	YES
L0001123	0	0.23210E-06	384282.3	3770280.0	127.0	0.00	1.70	0.85	YES
L0001124	0	0.23210E-06	384285.1	3770277.6	126.9	0.00	1.70	0.85	YES
L0001125	0	0.23210E-06	384287.8	3770275.2	126.7	0.00	1.70	0.85	YES
L0001126	0	0.23210E-06	384290.6	3770272.8	126.5	0.00	1.70	0.85	YES
L0001127	0	0.23210E-06	384293.4	3770270.4	126.6	0.00	1.70	0.85	YES
L0001128	0	0.23210E-06	384296.1	3770268.0	126.7	0.00	1.70	0.85	YES
L0001129	0	0.23210E-06	384298.9	3770265.6	126.7	0.00	1.70	0.85	YES
L0001130	0	0.23210E-06	384301.6	3770263.2	126.7	0.00	1.70	0.85	YES
L0001131	0	0.23210E-06	384304.4	3770260.8	126.7	0.00	1.70	0.85	YES
L0001132	0	0.23210E-06	384307.1	3770258.4	126.7	0.00	1.70	0.85	YES
L0001133	0	0.23210E-06	384309.9	3770256.0	127.0	0.00	1.70	0.85	YES
L0001134	0	0.23210E-06	384312.7	3770253.6	127.2	0.00	1.70	0.85	YES
L0001135	0	0.23210E-06	384315.4	3770251.2	127.3	0.00	1.70	0.85	YES
L0001136	0	0.23210E-06	384318.2	3770248.8	127.3	0.00	1.70	0.85	YES
L0001137	0	0.23210E-06	384320.9	3770246.4	127.3	0.00	1.70	0.85	YES
L0001138	0	0.23210E-06	384323.7	3770244.0	127.1	0.00	1.70	0.85	YES
L0001139	0	0.23210E-06	384326.5	3770241.6	126.9	0.00	1.70	0.85	YES
L0001140	0	0.23210E-06	384329.2	3770239.2	126.9	0.00	1.70	0.85	YES
L0001141	0	0.23210E-06	384332.0	3770236.8	127.0	0.00	1.70	0.85	YES
L0001142	0	0.23210E-06	384334.7	3770234.4	127.3	0.00	1.70	0.85	YES
L0001143	0	0.23210E-06	384337.5	3770232.0	127.5	0.00	1.70	0.85	YES
L0001144	0	0.23210E-06	384340.3	3770229.6	127.7	0.00	1.70	0.85	YES
L0001145	0	0.23210E-06	384343.0	3770227.2	127.9	0.00	1.70	0.85	YES
L0001146	0	0.23210E-06	384345.8	3770224.8	127.9	0.00	1.70	0.85	YES
L0001147	0	0.23210E-06	384348.5	3770222.3	127.9	0.00	1.70	0.85	YES
L0001148	0	0.23210E-06	384351.3	3770219.9	127.9	0.00	1.70	0.85	YES
L0001149	0	0.23210E-06	384354.0	3770217.5	127.8	0.00	1.70	0.85	YES
L0001150	0	0.23210E-06	384356.8	3770215.1	127.6	0.00	1.70	0.85	YES
L0001151	0	0.23210E-06	384359.6	3770212.7	127.3	0.00	1.70	0.85	YES
L0001152	0	0.23210E-06	384362.3	3770210.3	126.9	0.00	1.70	0.85	YES
L0001153	0	0.23210E-06	384365.1	3770207.9	126.9	0.00	1.70	0.85	YES
L0001154	0	0.23210E-06	384367.8	3770205.5	126.8	0.00	1.70	0.85	YES
L0001155	0	0.23210E-06	384370.6	3770203.1	126.8	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001156	0	0.23210E-06	384373.4	3770200.7	126.8	0.00	1.70	0.85	YES	
L0001157	0	0.23210E-06	384376.1	3770198.3	126.7	0.00	1.70	0.85	YES	
L0001158	0	0.23210E-06	384378.9	3770195.9	126.7	0.00	1.70	0.85	YES	

L0001159	0	0.23210E-06	384381.6	3770193.5	126.7	0.00	1.70	0.85	YES
L0001160	0	0.23210E-06	384384.4	3770191.1	126.8	0.00	1.70	0.85	YES
L0001161	0	0.23210E-06	384387.2	3770188.7	126.9	0.00	1.70	0.85	YES
L0001162	0	0.23210E-06	384389.9	3770186.3	127.0	0.00	1.70	0.85	YES
L0001163	0	0.23210E-06	384392.7	3770183.9	126.9	0.00	1.70	0.85	YES
L0001164	0	0.23210E-06	384395.4	3770181.5	126.7	0.00	1.70	0.85	YES
L0001165	0	0.23210E-06	384398.2	3770179.1	126.5	0.00	1.70	0.85	YES
L0001166	0	0.23210E-06	384400.9	3770176.7	126.4	0.00	1.70	0.85	YES
L0001167	0	0.23210E-06	384403.7	3770174.3	126.4	0.00	1.70	0.85	YES
L0001168	0	0.23210E-06	384406.5	3770171.9	126.3	0.00	1.70	0.85	YES
L0001169	0	0.23210E-06	384409.2	3770169.5	126.5	0.00	1.70	0.85	YES
L0001170	0	0.23210E-06	384412.0	3770167.1	126.6	0.00	1.70	0.85	YES
L0001171	0	0.23210E-06	384414.7	3770164.7	126.8	0.00	1.70	0.85	YES
L0001172	0	0.23210E-06	384417.5	3770162.3	126.8	0.00	1.70	0.85	YES
L0001173	0	0.23210E-06	384420.3	3770159.9	126.8	0.00	1.70	0.85	YES
L0001174	0	0.23210E-06	384423.0	3770157.5	126.7	0.00	1.70	0.85	YES
L0001175	0	0.23210E-06	384425.8	3770155.1	126.5	0.00	1.70	0.85	YES
L0001176	0	0.23210E-06	384428.5	3770152.7	126.3	0.00	1.70	0.85	YES
L0001177	0	0.23210E-06	384431.3	3770150.3	126.0	0.00	1.70	0.85	YES
L0001178	0	0.23210E-06	384434.0	3770147.9	125.7	0.00	1.70	0.85	YES
L0001179	0	0.23210E-06	384436.8	3770145.5	125.7	0.00	1.70	0.85	YES
L0001180	0	0.23210E-06	384439.6	3770143.1	125.6	0.00	1.70	0.85	YES
L0001181	0	0.23210E-06	384442.3	3770140.7	125.6	0.00	1.70	0.85	YES
L0001182	0	0.23210E-06	384445.1	3770138.3	125.5	0.00	1.70	0.85	YES
L0001183	0	0.23210E-06	384447.8	3770135.9	125.5	0.00	1.70	0.85	YES
L0001184	0	0.23210E-06	384450.6	3770133.5	125.4	0.00	1.70	0.85	YES
L0001185	0	0.23210E-06	384453.4	3770131.1	125.3	0.00	1.70	0.85	YES
L0001186	0	0.23210E-06	384456.1	3770128.7	125.1	0.00	1.70	0.85	YES
L0001187	0	0.23210E-06	384458.9	3770126.3	125.0	0.00	1.70	0.85	YES
L0001188	0	0.23210E-06	384461.6	3770123.9	124.9	0.00	1.70	0.85	YES
L0001189	0	0.23210E-06	384464.4	3770121.5	124.7	0.00	1.70	0.85	YES
L0001190	0	0.23210E-06	384467.2	3770119.1	124.5	0.00	1.70	0.85	YES
L0001191	0	0.23210E-06	384469.9	3770116.7	124.3	0.00	1.70	0.85	YES
L0001192	0	0.23210E-06	384472.7	3770114.3	124.1	0.00	1.70	0.85	YES
L0001193	0	0.23210E-06	384475.4	3770111.9	124.0	0.00	1.70	0.85	YES
L0001194	0	0.23210E-06	384478.2	3770109.5	123.9	0.00	1.70	0.85	YES
L0001195	0	0.23210E-06	384480.9	3770107.1	123.8	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0001196	0	0.23210E-06	384483.7	3770104.7	123.6	0.00	1.70	0.85	YES
L0001197	0	0.23210E-06	384486.5	3770102.3	123.5	0.00	1.70	0.85	YES
L0001198	0	0.23210E-06	384489.2	3770099.9	123.3	0.00	1.70	0.85	YES
L0001199	0	0.23210E-06	384492.0	3770097.5	123.2	0.00	1.70	0.85	YES
L0001200	0	0.23210E-06	384494.7	3770095.1	123.0	0.00	1.70	0.85	YES
L0001201	0	0.23210E-06	384497.5	3770092.7	122.9	0.00	1.70	0.85	YES
L0001202	0	0.23210E-06	384500.3	3770090.3	122.8	0.00	1.70	0.85	YES
L0001203	0	0.23210E-06	384503.0	3770087.9	122.6	0.00	1.70	0.85	YES
L0001204	0	0.23210E-06	384505.8	3770085.5	122.5	0.00	1.70	0.85	YES
L0001205	0	0.23210E-06	384508.5	3770083.1	122.4	0.00	1.70	0.85	YES
L0001206	0	0.23210E-06	384511.3	3770080.7	122.2	0.00	1.70	0.85	YES
L0001207	0	0.23210E-06	384514.0	3770078.2	122.1	0.00	1.70	0.85	YES
L0001208	0	0.23210E-06	384516.8	3770075.8	122.0	0.00	1.70	0.85	YES
L0001209	0	0.23210E-06	384519.6	3770073.4	121.8	0.00	1.70	0.85	YES
L0001210	0	0.23210E-06	384522.3	3770071.0	121.7	0.00	1.70	0.85	YES
L0001211	0	0.23210E-06	384525.1	3770068.6	121.5	0.00	1.70	0.85	YES
L0001212	0	0.23210E-06	384527.8	3770066.2	121.4	0.00	1.70	0.85	YES
L0001213	0	0.23210E-06	384530.6	3770063.8	121.2	0.00	1.70	0.85	YES
L0001214	0	0.23210E-06	384533.4	3770061.4	121.1	0.00	1.70	0.85	YES
L0001215	0	0.23210E-06	384536.1	3770059.0	120.9	0.00	1.70	0.85	YES
L0001216	0	0.23210E-06	384538.9	3770056.6	120.8	0.00	1.70	0.85	YES
L0001217	0	0.23210E-06	384541.6	3770054.2	120.7	0.00	1.70	0.85	YES
L0001218	0	0.23210E-06	384544.4	3770051.8	120.6	0.00	1.70	0.85	YES
L0001219	0	0.23210E-06	384547.2	3770049.4	120.4	0.00	1.70	0.85	YES
L0001220	0	0.23210E-06	384549.9	3770047.0	120.3	0.00	1.70	0.85	YES
L0001221	0	0.23210E-06	384552.7	3770044.6	120.2	0.00	1.70	0.85	YES
L0001222	0	0.23210E-06	384555.4	3770042.2	120.0	0.00	1.70	0.85	YES
L0001223	0	0.23210E-06	384558.2	3770039.8	119.9	0.00	1.70	0.85	YES
L0001224	0	0.23210E-06	384560.9	3770037.4	119.7	0.00	1.70	0.85	YES
L0001225	0	0.23210E-06	384251.1	3770284.0	126.4	0.00	1.70	0.85	YES
L0001226	0	0.23210E-06	384253.9	3770281.6	125.9	0.00	1.70	0.85	YES
L0001227	0	0.23210E-06	384256.6	3770279.2	125.8	0.00	1.70	0.85	YES
L0001228	0	0.23210E-06	384259.4	3770276.8	125.7	0.00	1.70	0.85	YES
L0001229	0	0.23210E-06	384262.2	3770274.4	125.7	0.00	1.70	0.85	YES
L0001230	0	0.23210E-06	384264.9	3770272.0	125.8	0.00	1.70	0.85	YES
L0001231	0	0.23210E-06	384267.7	3770269.6	126.1	0.00	1.70	0.85	YES
L0001232	0	0.23210E-06	384270.5	3770267.3	126.4	0.00	1.70	0.85	YES
L0001233	0	0.23210E-06	384273.2	3770264.9	126.7	0.00	1.70	0.85	YES
L0001234	0	0.23210E-06	384276.0	3770262.5	126.9	0.00	1.70	0.85	YES
L0001235	0	0.23210E-06	384278.8	3770260.1	127.1	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY

ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0001236	0	0.23210E-06	384281.5	3770257.7	127.2	0.00	1.70	0.85	YES
L0001237	0	0.23210E-06	384284.3	3770255.3	127.3	0.00	1.70	0.85	YES
L0001238	0	0.23210E-06	384287.1	3770252.9	127.3	0.00	1.70	0.85	YES
L0001239	0	0.23210E-06	384289.8	3770250.5	127.2	0.00	1.70	0.85	YES
L0001240	0	0.23210E-06	384292.6	3770248.1	127.2	0.00	1.70	0.85	YES
L0001241	0	0.23210E-06	384295.4	3770245.7	127.0	0.00	1.70	0.85	YES
L0001242	0	0.23210E-06	384298.1	3770243.3	126.8	0.00	1.70	0.85	YES
L0001243	0	0.23210E-06	384300.9	3770240.9	126.6	0.00	1.70	0.85	YES
L0001244	0	0.23210E-06	384303.7	3770238.5	126.5	0.00	1.70	0.85	YES
L0001245	0	0.23210E-06	384306.4	3770236.1	126.6	0.00	1.70	0.85	YES
L0001246	0	0.23210E-06	384309.2	3770233.8	126.8	0.00	1.70	0.85	YES
L0001247	0	0.23210E-06	384312.0	3770231.4	126.9	0.00	1.70	0.85	YES
L0001248	0	0.23210E-06	384314.7	3770229.0	127.0	0.00	1.70	0.85	YES
L0001249	0	0.23210E-06	384317.5	3770226.6	127.0	0.00	1.70	0.85	YES
L0001250	0	0.23210E-06	384320.3	3770224.2	127.0	0.00	1.70	0.85	YES
L0001251	0	0.23210E-06	384323.0	3770221.8	126.9	0.00	1.70	0.85	YES
L0001252	0	0.23210E-06	384325.8	3770219.4	126.8	0.00	1.70	0.85	YES
L0001253	0	0.23210E-06	384328.6	3770217.0	126.6	0.00	1.70	0.85	YES
L0001254	0	0.23210E-06	384331.3	3770214.6	126.5	0.00	1.70	0.85	YES
L0001255	0	0.23210E-06	384334.1	3770212.2	126.5	0.00	1.70	0.85	YES
L0001256	0	0.23210E-06	384336.9	3770209.8	126.5	0.00	1.70	0.85	YES
L0001257	0	0.23210E-06	384339.6	3770207.4	126.6	0.00	1.70	0.85	YES
L0001258	0	0.23210E-06	384342.4	3770205.0	126.7	0.00	1.70	0.85	YES
L0001259	0	0.23210E-06	384345.2	3770202.6	126.7	0.00	1.70	0.85	YES
L0001260	0	0.23210E-06	384347.9	3770200.3	126.7	0.00	1.70	0.85	YES
L0001261	0	0.23210E-06	384350.7	3770197.9	126.7	0.00	1.70	0.85	YES
L0001262	0	0.23210E-06	384353.5	3770195.5	126.7	0.00	1.70	0.85	YES
L0001263	0	0.23210E-06	384356.2	3770193.1	126.6	0.00	1.70	0.85	YES
L0001264	0	0.23210E-06	384359.0	3770190.7	126.6	0.00	1.70	0.85	YES
L0001265	0	0.23210E-06	384361.7	3770188.3	126.5	0.00	1.70	0.85	YES
L0001266	0	0.23210E-06	384364.5	3770185.9	126.5	0.00	1.70	0.85	YES
L0001267	0	0.23210E-06	384367.3	3770183.5	126.5	0.00	1.70	0.85	YES
L0001268	0	0.23210E-06	384370.0	3770181.1	126.4	0.00	1.70	0.85	YES
L0001269	0	0.23210E-06	384372.8	3770178.7	126.4	0.00	1.70	0.85	YES
L0001270	0	0.23210E-06	384375.6	3770176.3	126.5	0.00	1.70	0.85	YES
L0001271	0	0.23210E-06	384378.3	3770173.9	126.6	0.00	1.70	0.85	YES
L0001272	0	0.23210E-06	384381.1	3770171.5	126.7	0.00	1.70	0.85	YES
L0001273	0	0.23210E-06	384383.9	3770169.1	126.7	0.00	1.70	0.85	YES
L0001274	0	0.23210E-06	384386.6	3770166.8	126.7	0.00	1.70	0.85	YES
L0001275	0	0.23210E-06	384389.4	3770164.4	126.7	0.00	1.70	0.85	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001276	0	0.23210E-06	384392.2	3770162.0	126.7	0.00	1.70	0.85	YES	
L0001277	0	0.23210E-06	384394.9	3770159.6	126.6	0.00	1.70	0.85	YES	
L0001278	0	0.23210E-06	384397.7	3770157.2	126.5	0.00	1.70	0.85	YES	
L0001279	0	0.23210E-06	384400.5	3770154.8	126.4	0.00	1.70	0.85	YES	
L0001280	0	0.23210E-06	384403.2	3770152.4	126.2	0.00	1.70	0.85	YES	
L0001281	0	0.23210E-06	384406.0	3770150.0	126.0	0.00	1.70	0.85	YES	
L0001282	0	0.23210E-06	384408.8	3770147.6	125.9	0.00	1.70	0.85	YES	
L0001283	0	0.23210E-06	384411.5	3770145.2	125.9	0.00	1.70	0.85	YES	
L0001284	0	0.23210E-06	384414.3	3770142.8	125.9	0.00	1.70	0.85	YES	
L0001285	0	0.23210E-06	384417.1	3770140.4	125.8	0.00	1.70	0.85	YES	
L0001286	0	0.23210E-06	384419.8	3770138.0	125.7	0.00	1.70	0.85	YES	
L0001287	0	0.23210E-06	384422.6	3770135.6	125.7	0.00	1.70	0.85	YES	
L0001288	0	0.23210E-06	384425.4	3770133.2	125.6	0.00	1.70	0.85	YES	
L0001289	0	0.23210E-06	384428.1	3770130.9	125.5	0.00	1.70	0.85	YES	
L0001290	0	0.23210E-06	384430.9	3770128.5	125.3	0.00	1.70	0.85	YES	
L0001291	0	0.23210E-06	384433.7	3770126.1	125.2	0.00	1.70	0.85	YES	
L0001292	0	0.23210E-06	384436.4	3770123.7	125.1	0.00	1.70	0.85	YES	
L0001293	0	0.23210E-06	384439.2	3770121.3	125.0	0.00	1.70	0.85	YES	
L0001294	0	0.23210E-06	384442.0	3770118.9	124.9	0.00	1.70	0.85	YES	
L0001295	0	0.23210E-06	384444.7	3770116.5	124.8	0.00	1.70	0.85	YES	
L0001296	0	0.23210E-06	384447.5	3770114.1	124.6	0.00	1.70	0.85	YES	
L0001297	0	0.23210E-06	384450.3	3770111.7	124.5	0.00	1.70	0.85	YES	
L0001298	0	0.23210E-06	384453.0	3770109.3	124.3	0.00	1.70	0.85	YES	
L0001299	0	0.23210E-06	384455.8	3770106.9	124.2	0.00	1.70	0.85	YES	
L0001300	0	0.23210E-06	384458.6	3770104.5	124.2	0.00	1.70	0.85	YES	
L0001301	0	0.23210E-06	384461.3	3770102.1	124.0	0.00	1.70	0.85	YES	
L0001302	0	0.23210E-06	384464.1	3770099.7	123.9	0.00	1.70	0.85	YES	
L0001303	0	0.23210E-06	384466.9	3770097.4	123.8	0.00	1.70	0.85	YES	
L0001304	0	0.23210E-06	384469.6	3770095.0	123.7	0.00	1.70	0.85	YES	
L0001305	0	0.23210E-06	384472.4	3770092.6	123.6	0.00	1.70	0.85	YES	
L0001306	0	0.23210E-06	384475.2	3770090.2	123.5	0.00	1.70	0.85	YES	
L0001307	0	0.23210E-06	384477.9	3770087.8	123.3	0.00	1.70	0.85	YES	
L0001308	0	0.23210E-06	384480.7	3770085.4	123.2	0.00	1.70	0.85	YES	
L0001309	0	0.23210E-06	384483.5	3770083.0	122.8	0.00	1.70	0.85	YES	
L0001310	0	0.23210E-06	384486.2	3770080.6	122.5	0.00	1.70	0.85	YES	
L0001311	0	0.23210E-06	384489.0	3770078.2	122.2	0.00	1.70	0.85	YES	
L0001312	0	0.23210E-06	384491.8	3770075.8	121.9	0.00	1.70	0.85	YES	
L0001313	0	0.23210E-06	384494.5	3770073.4	121.8	0.00	1.70	0.85	YES	
L0001314	0	0.23210E-06	384497.3	3770071.0	121.6	0.00	1.70	0.85	YES	
L0001315	0	0.23210E-06	384500.1	3770068.6	121.6	0.00	1.70	0.85	YES	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001316	0	0.23210E-06	384502.8	3770066.2	121.6	0.00	1.70	0.85	YES	
L0001317	0	0.23210E-06	384505.6	3770063.9	121.7	0.00	1.70	0.85	YES	
L0001318	0	0.23210E-06	384508.4	3770061.5	121.8	0.00	1.70	0.85	YES	
L0001319	0	0.23210E-06	384511.1	3770059.1	121.7	0.00	1.70	0.85	YES	
L0001320	0	0.23210E-06	384513.9	3770056.7	121.6	0.00	1.70	0.85	YES	
L0001321	0	0.23210E-06	384516.7	3770054.3	121.5	0.00	1.70	0.85	YES	
L0001322	0	0.23210E-06	384519.4	3770051.9	121.0	0.00	1.70	0.85	YES	
L0001323	0	0.23210E-06	384522.2	3770049.5	120.7	0.00	1.70	0.85	YES	
L0001324	0	0.23210E-06	384525.0	3770047.1	120.5	0.00	1.70	0.85	YES	
L0001325	0	0.23210E-06	384527.7	3770044.7	120.4	0.00	1.70	0.85	YES	
L0001326	0	0.23210E-06	384530.5	3770042.3	120.4	0.00	1.70	0.85	YES	
L0001327	0	0.23210E-06	384533.2	3770039.9	120.5	0.00	1.70	0.85	YES	
L0001328	0	0.23210E-06	384536.0	3770037.5	120.5	0.00	1.70	0.85	YES	
L0001329	0	0.23210E-06	384538.8	3770035.1	120.3	0.00	1.70	0.85	YES	
L0001330	0	0.23210E-06	384541.5	3770032.7	120.2	0.00	1.70	0.85	YES	
L0001331	0	0.23210E-06	384544.3	3770030.3	120.1	0.00	1.70	0.85	YES	
L0001332	0	0.23210E-06	384547.1	3770028.0	120.0	0.00	1.70	0.85	YES	
L0001333	0	0.23210E-06	384549.8	3770025.6	119.8	0.00	1.70	0.85	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0001116 , L0001117 , L0001118 , L0001119 , L0001120 , L0001121 , L0001122 , L0001123 , L0001124 , L0001125 , L0001126 , L0001127 , L0001128 , L0001129 , L0001130 , L0001131 , L0001132 , L0001133 , L0001134 , L0001135 , L0001136 , L0001137 , L0001138 , L0001139 , L0001140 , L0001141 , L0001142 , L0001143 , L0001144 , L0001145 , L0001146 , L0001147 , L0001148 , L0001149 , L0001150 , L0001151 , L0001152 , L0001153 , L0001154 , L0001155 , L0001156 , L0001157 , L0001158 , L0001159 , L0001160 , L0001161 , L0001162 , L0001163 ,

L0001164 , L0001165 , L0001166 , L0001167 , L0001168 , L0001169 , L0001170 , L0001171 ,

L0001172 , L0001173 , L0001174 , L0001175 , L0001176 , L0001177 , L0001178 , L0001179 ,

L0001180 , L0001181 , L0001182 , L0001183 , L0001184 , L0001185 , L0001186 , L0001187 ,

L0001188 , L0001189 , L0001190 , L0001191 , L0001192 , L0001193 , L0001194 , L0001195 ,

L0001196 , L0001197 , L0001198 , L0001199 , L0001200 , L0001201 , L0001202 , L0001203 ,

L0001204 , L0001205 , L0001206 , L0001207 , L0001208 , L0001209 , L0001210 , L0001211 ,

L0001212 , L0001213 , L0001214 , L0001215 , L0001216 , L0001217 , L0001218 , L0001219 ,

L0001220 , L0001221 , L0001222 , L0001223 , L0001224 , L0001225 , L0001226 , L0001227 ,

L0001228 , L0001229 , L0001230 , L0001231 , L0001232 , L0001233 , L0001234 , L0001235 ,

L0001236 , L0001237 , L0001238 , L0001239 , L0001240 , L0001241 , L0001242 , L0001243 ,

L0001244 , L0001245 , L0001246 , L0001247 , L0001248 , L0001249 , L0001250 , L0001251 ,

L0001252 , L0001253 , L0001254 , L0001255 , L0001256 , L0001257 , L0001258 , L0001259 ,

L0001260 , L0001261 , L0001262 , L0001263 , L0001264 , L0001265 , L0001266 , L0001267 ,

L0001268 , L0001269 , L0001270 , L0001271 , L0001272 , L0001273 , L0001274 , L0001275 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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L0001276 , L0001277 , L0001278 , L0001279 , L0001280 , L0001281 , L0001282 , L0001283 ,

L0001284 , L0001285 , L0001286 , L0001287 , L0001288 , L0001289 , L0001290 , L0001291 ,

L0001292 , L0001293 , L0001294 , L0001295 , L0001296 , L0001297 , L0001298 , L0001299 ,

L0001300 , L0001301 , L0001302 , L0001303 , L0001304 , L0001305 , L0001306 , L0001307 ,

L0001308 , L0001309 , L0001310 , L0001311 , L0001312 , L0001313 , L0001314 , L0001315 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	L0001116 , L0001117 , L0001118 , L0001119 , L0001120 , L0001121 , L0001122 , L0001123 ,
		L0001124 , L0001125 , L0001126 , L0001127 , L0001128 , L0001129 , L0001130 , L0001131 ,
		L0001132 , L0001133 , L0001134 , L0001135 , L0001136 , L0001137 , L0001138 , L0001139 ,
		L0001140 , L0001141 , L0001142 , L0001143 , L0001144 , L0001145 , L0001146 , L0001147 ,
		L0001148 , L0001149 , L0001150 , L0001151 , L0001152 , L0001153 , L0001154 , L0001155 ,
		L0001156 , L0001157 , L0001158 , L0001159 , L0001160 , L0001161 , L0001162 , L0001163 ,
		L0001164 , L0001165 , L0001166 , L0001167 , L0001168 , L0001169 , L0001170 , L0001171 ,
		L0001172 , L0001173 , L0001174 , L0001175 , L0001176 , L0001177 , L0001178 , L0001179 ,
		L0001180 , L0001181 , L0001182 , L0001183 , L0001184 , L0001185 , L0001186 , L0001187 ,
		L0001188 , L0001189 , L0001190 , L0001191 , L0001192 , L0001193 , L0001194 , L0001195 ,
		L0001196 , L0001197 , L0001198 , L0001199 , L0001200 , L0001201 , L0001202 , L0001203 ,
		L0001204 , L0001205 , L0001206 , L0001207 , L0001208 , L0001209 , L0001210 , L0001211 ,
		L0001212 , L0001213 , L0001214 , L0001215 , L0001216 , L0001217 , L0001218 , L0001219 ,
		L0001220 , L0001221 , L0001222 , L0001223 , L0001224 , L0001225 , L0001226 , L0001227 ,
		L0001228 , L0001229 , L0001230 , L0001231 , L0001232 , L0001233 , L0001234 , L0001235 ,
		L0001236 , L0001237 , L0001238 , L0001239 , L0001240 , L0001241 , L0001242 , L0001243 ,

L0001244 , L0001245 , L0001246 , L0001247 , L0001248 , L0001249 , L0001250 , L0001251 ,

L0001252 , L0001253 , L0001254 , L0001255 , L0001256 , L0001257 , L0001258 , L0001259 ,

L0001260 , L0001261 , L0001262 , L0001263 , L0001264 , L0001265 , L0001266 , L0001267 ,

L0001268 , L0001269 , L0001270 , L0001271 , L0001272 , L0001273 , L0001274 , L0001275 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0001276 , L0001277 , L0001278 , L0001279 , L0001280 , L0001281 , L0001282 , L0001283 ,

L0001284 , L0001285 , L0001286 , L0001287 , L0001288 , L0001289 , L0001290 , L0001291 ,

L0001292 , L0001293 , L0001294 , L0001295 , L0001296 , L0001297 , L0001298 , L0001299 ,

L0001300 , L0001301 , L0001302 , L0001303 , L0001304 , L0001305 , L0001306 , L0001307 ,

L0001308 , L0001309 , L0001310 , L0001311 , L0001312 , L0001313 , L0001314 , L0001315 ,

L0001316 , L0001317 , L0001318 , L0001319 , L0001320 , L0001321 , L0001322 , L0001323 ,

L0001324 , L0001325 , L0001326 , L0001327 , L0001328 , L0001329 , L0001330 , L0001331 ,

L0001332 , L0001333 ,

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

384229.9, 384246.6, 384263.3, 384280.0, 384296.8, 384313.5, 384330.2, 384346.9, 384363.6, 384380.3,
384397.1, 384413.8, 384430.5, 384447.2, 384464.0, 384480.7, 384497.4, 384514.1, 384530.8, 384547.5,
384564.3,

*** Y-COORDINATES OF GRID ***
(METERS)

3769956.5, 3769973.8, 3769991.1, 3770008.4, 3770025.7, 3770043.0, 3770060.3, 3770077.6, 3770094.9, 3770112.2,
3770129.5, 3770146.8, 3770164.1, 3770181.4, 3770198.7, 3770216.0, 3770233.3, 3770250.6, 3770267.9, 3770285.2,
3770302.5,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384229.87	384246.59	384263.31	384280.03	384296.75	384313.47	384330.19	384346.91	384363.63
3770302.50	126.20	126.40	127.50	129.40	132.30	134.10	134.20	134.50	134.90
3770285.20	129.00	126.90	126.40	127.50	129.00	131.00	133.20	133.80	134.20
3770267.90	130.70	127.70	126.30	126.40	126.70	128.30	131.80	132.70	133.40
3770250.60	130.50	129.30	128.40	127.80	126.90	127.10	128.70	130.60	132.20
3770233.30	131.40	130.30	129.40	128.60	127.40	126.80	126.80	128.80	130.40
3770216.00	133.30	130.70	129.30	128.90	128.40	127.60	126.50	127.20	127.80
3770198.70	134.20	131.90	130.10	128.80	128.40	127.80	126.90	126.70	126.70
3770181.40	134.70	133.30	131.10	128.40	128.10	127.80	127.50	126.80	126.40
3770164.10	135.00	133.60	131.30	128.60	127.70	127.10	126.70	126.50	126.60
3770146.80	135.10	133.60	131.40	128.90	127.50	126.50	125.80	126.10	126.60
3770129.50	134.40	132.60	131.00	129.60	127.70	126.20	125.10	124.90	125.20
3770112.20	133.80	132.10	131.00	130.30	128.10	126.30	125.00	124.00	123.90
3770094.90	133.60	132.40	131.70	131.00	128.90	127.30	126.20	124.00	122.80
3770077.60	133.90	133.40	132.70	131.90	130.00	128.60	127.40	124.20	122.20
3770060.30	134.30	134.60	134.10	133.00	131.20	129.90	128.70	124.60	122.00
3770043.00	135.30	135.90	135.30	133.90	132.60	131.00	129.30	125.90	123.10
3770025.70	136.30	137.10	136.30	134.90	133.90	132.10	129.70	127.50	124.80
3770008.40	135.30	136.30	136.20	135.50	134.30	132.30	129.80	127.20	124.90
3769991.10	134.30	135.30	135.80	135.80	134.30	132.30	129.80	126.90	124.80
3769973.80	133.10	134.00	134.60	134.70	133.20	131.50	129.60	126.60	123.40
3769956.50	131.80	132.60	133.20	133.30	132.00	130.30	128.30	125.80	122.10

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	135.30	134.80	134.20	134.30	133.80	132.70	130.50	129.30	128.80
3770285.20	134.90	134.60	134.50	135.20	134.50	133.10	130.40	129.00	128.50
3770267.90	134.40	134.40	134.70	135.90	135.10	133.30	130.30	128.80	128.20
3770250.60	133.20	134.00	134.70	135.40	134.30	132.60	130.20	128.70	127.80
3770233.30	131.20	132.80	134.20	134.80	133.70	132.00	129.90	128.40	127.30
3770216.00	128.10	130.80	133.20	134.10	133.30	131.70	129.20	127.80	126.90
3770198.70	126.80	128.80	130.90	132.40	131.80	130.50	128.60	127.50	126.60
3770181.40	126.50	126.70	127.80	130.20	129.70	128.80	128.20	127.40	126.50
3770164.10	126.90	126.50	126.70	127.90	127.70	127.50	127.80	127.40	126.50
3770146.80	127.40	126.50	125.90	125.70	125.90	126.40	127.40	127.40	126.50
3770129.50	126.10	126.10	125.90	125.40	125.20	125.20	125.50	125.10	124.30
3770112.20	124.60	125.20	125.30	124.70	124.50	124.30	123.90	123.20	122.50
3770094.90	122.50	122.70	123.00	123.30	123.70	123.80	123.50	122.90	122.40
3770077.60	121.20	121.10	121.20	121.70	122.10	122.30	122.10	122.20	122.10
3770060.30	120.70	120.20	119.90	119.90	119.80	119.60	119.50	120.80	121.70
3770043.00	121.00	119.80	119.00	118.50	118.20	117.80	117.60	118.40	119.40
3770025.70	121.60	119.60	118.20	117.30	116.90	116.40	115.90	115.40	116.30
3770008.40	122.80	119.90	117.80	116.70	116.10	115.50	114.90	114.40	114.80
3769991.10	123.20	119.80	117.60	116.30	115.40	114.60	114.00	113.60	113.40
3769973.80	120.00	118.70	117.80	117.30	115.20	113.80	113.30	112.80	112.40
3769956.50	117.90	117.90	117.80	117.80	115.50	113.80	112.70	112.00	111.40

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	384530.83	384547.55	384564.27
3770302.50	130.30	131.80	133.10
3770285.20	129.90	131.90	133.80
3770267.90	129.60	132.10	134.80
3770250.60	128.30	131.20	134.80
3770233.30	127.20	130.40	134.60
3770216.00	126.50	129.70	134.10
3770198.70	125.80	129.00	133.50
3770181.40	125.20	128.30	132.80
3770164.10	124.60	126.00	128.80
3770146.80	124.10	123.10	123.80
3770129.50	122.90	122.30	122.60

3770112.20	121.90	121.60	121.20
3770094.90	121.70	120.30	118.90
3770077.60	121.50	119.70	117.90
3770060.30	121.20	120.30	118.90
3770043.00	120.50	120.30	119.40
3770025.70	119.60	119.90	119.40
3770008.40	116.80	118.00	118.80
3769991.10	113.60	115.90	117.80
3769973.80	112.10	112.90	113.80
3769956.50	110.90	110.60	110.50

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 384229.87	384246.59	384263.31	384280.03	384296.75	384313.47	384330.19	384346.91	384363.63
3770302.50	152.60	152.60	150.00	139.20	134.20	134.10	134.20	134.50	134.90
3770285.20	130.90	139.20	147.90	139.20	135.50	134.20	133.20	133.80	134.20
3770267.90	130.70	134.50	139.20	135.50	135.50	135.50	132.90	132.70	133.40
3770250.60	130.50	134.00	134.00	134.20	135.50	135.50	134.80	133.40	132.20
3770233.30	134.00	134.00	134.00	128.60	132.90	134.80	134.80	134.80	134.80
3770216.00	134.00	134.90	134.90	128.90	128.40	127.60	134.80	134.80	134.80
3770198.70	134.20	134.90	134.90	134.90	128.40	127.80	126.90	134.50	135.10
3770181.40	134.70	133.30	134.90	135.50	132.80	127.80	127.50	126.80	134.50
3770164.10	135.00	133.60	135.50	135.50	135.50	127.10	126.70	126.50	126.60
3770146.80	135.10	133.60	135.50	135.50	135.50	135.50	125.80	126.10	126.60
3770129.50	134.40	135.50	135.50	135.50	135.50	135.50	133.10	124.90	125.20
3770112.20	133.80	134.20	131.00	130.30	131.50	137.50	137.50	137.50	123.90
3770094.90	133.60	132.40	131.70	131.00	137.50	137.50	137.50	137.50	137.50
3770077.60	133.90	133.40	132.70	131.90	137.50	137.50	137.50	137.50	137.50
3770060.30	134.30	134.60	134.10	137.50	137.50	137.50	137.50	137.50	137.50
3770043.00	135.30	135.90	137.50	137.50	137.50	137.50	137.50	137.50	137.50
3770025.70	136.30	137.10	136.30	134.90	133.90	133.60	136.30	137.50	137.50
3770008.40	135.30	136.30	136.20	135.50	134.30	136.30	136.30	137.50	137.50
3769991.10	134.30	135.30	135.80	135.80	134.30	136.30	136.30	137.50	137.50
3769973.80	133.10	134.00	134.60	134.70	136.30	136.30	136.30	136.30	137.50
3769956.50	131.80	133.60	133.20	134.50	134.50	136.30	136.30	136.30	137.50

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	135.30	134.80	134.20	134.30	133.80	133.30	136.30	133.30	136.30
3770285.20	134.90	134.60	134.50	135.20	134.50	133.10	136.30	136.30	136.30
3770267.90	134.40	134.40	134.70	135.90	135.10	136.30	136.30	136.30	136.30
3770250.60	133.20	134.00	134.70	135.40	134.30	136.30	136.30	136.30	136.30
3770233.30	134.50	134.50	134.20	134.80	133.70	132.00	136.30	136.30	136.30
3770216.00	136.30	134.50	133.20	134.10	133.30	131.70	135.10	136.30	136.10
3770198.70	136.30	135.10	134.00	134.00	134.00	134.00	135.10	135.10	136.10
3770181.40	135.10	135.10	135.10	134.00	134.00	134.00	134.00	132.40	136.10
3770164.10	134.00	135.10	135.10	134.00	134.00	134.00	127.80	127.40	136.10
3770146.80	127.40	134.00	134.00	135.10	134.00	134.00	127.40	127.40	136.10
3770129.50	126.10	126.10	125.90	134.00	134.00	134.00	127.70	127.70	136.10
3770112.20	125.30	126.30	126.30	124.70	124.50	124.30	127.70	134.80	136.10
3770094.90	137.50	126.30	126.30	123.30	123.70	123.80	123.50	122.90	136.10
3770077.60	137.50	137.50	133.60	122.60	123.70	123.70	123.20	122.20	134.80
3770060.30	137.50	137.50	137.50	133.60	123.70	123.70	123.70	120.80	121.70
3770043.00	137.50	137.50	137.50	137.50	136.30	123.70	134.80	134.80	134.80
3770025.70	137.50	137.50	137.50	137.50	137.50	136.30	134.80	136.10	136.10
3770008.40	137.50	137.50	137.50	137.50	137.50	137.50	136.30	134.80	136.10
3769991.10	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	134.80
3769973.80	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	136.30
3769956.50	137.50	137.50	137.50	137.50	137.50	137.50	137.50	136.30	136.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	384530.83	384547.55	384564.27
3770302.50	136.30	136.30	136.30
3770285.20	136.30	134.90	133.80
3770267.90	134.90	134.90	134.80
3770250.60	136.10	134.90	134.80
3770233.30	136.10	136.10	134.60
3770216.00	136.10	136.10	134.10
3770198.70	136.10	136.10	136.10
3770181.40	136.10	136.10	132.80

3770164.10	136.10	136.10	136.10
3770146.80	136.10	136.10	136.10
3770129.50	136.10	136.10	136.10
3770112.20	136.10	136.10	136.10
3770094.90	136.10	136.10	136.10
3770077.60	136.10	136.10	136.10
3770060.30	134.80	136.10	136.10
3770043.00	120.50	134.80	136.10
3770025.70	120.20	119.90	134.80
3770008.40	134.80	120.20	118.80
3769991.10	136.10	120.20	117.80
3769973.80	134.80	134.80	134.80
3769956.50	134.80	136.10	136.10

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(384316.8, 3770081.4, 128.1, 137.5, 0.0); (384338.4, 3770053.1, 127.0, 137.5, 0.0);
(384290.3, 3770038.6, 133.4, 137.5, 0.0); (384317.7, 3770025.8, 131.5, 133.6, 0.0);

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0001121	384280.0	3770285.2	-0.40
L0001122	384280.0	3770285.2	-0.81
L0001127	384296.8	3770267.9	0.55
L0001128	384296.8	3770267.9	-3.02
L0001129	384296.8	3770267.9	-0.51
L0001134	384313.5	3770250.6	-0.58
L0001135	384313.5	3770250.6	-1.62
L0001141	384330.2	3770233.3	0.24
L0001157	384380.3	3770198.7	0.59
L0001158	384380.3	3770198.7	-0.52
L0001164	384397.1	3770181.4	-2.01
L0001165	384397.1	3770181.4	-1.12

L0001170	384413.8	3770164.1	-0.14
L0001171	384413.8	3770164.1	-2.53
L0001172	384413.8	3770164.1	0.46
L0001177	384430.5	3770146.8	-0.07
L0001178	384430.5	3770146.8	0.05
L0001194	384480.7	3770112.2	0.04
L0001200	384497.4	3770094.9	-1.00
L0001201	384497.4	3770094.9	-1.41
L0001206	384514.1	3770077.6	0.50
L0001207	384514.1	3770077.6	-3.00
L0001208	384514.1	3770077.6	-0.44
L0001213	384530.8	3770060.3	-0.11
L0001214	384530.8	3770060.3	-0.88
L0001230	384263.3	3770267.9	0.79
L0001246	384313.5	3770233.3	0.65
L0001247	384313.5	3770233.3	-1.20
L0001248	384313.5	3770233.3	0.85
L0001253	384330.2	3770216.0	-1.74
L0001254	384330.2	3770216.0	-1.86
L0001259	384346.9	3770198.7	0.66
L0001260	384346.9	3770198.7	-1.80
L0001261	384346.9	3770198.7	0.21
L0001266	384363.6	3770181.4	0.93
L0001267	384363.6	3770181.4	0.56
L0001283	384413.8	3770146.8	-0.90
L0001284	384413.8	3770146.8	0.36
L0001289	384430.5	3770129.5	-0.92
L0001290	384430.5	3770129.5	-2.55

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0001296	384447.2	3770112.2	-1.73
L0001297	384447.2	3770112.2	-0.58
L0001303	384464.0	3770094.9	0.15
L0001319	384514.1	3770060.3	-0.42
L0001320	384514.1	3770060.3	-0.02
L0001325	384530.8	3770043.0	-0.11
L0001326	384530.8	3770043.0	-2.89
L0001327	384530.8	3770043.0	0.26
L0001332	384547.5	3770025.7	-1.35

L0001333 384547.5 3770025.7 -1.35

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: E:\New MET data\CELA_V9_ADJU\CELA_v9.SFC Met Version: 16216
Profile file: E:\New MET data\CELA_V9_ADJU\CELA_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93134 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-33.0	0.331	-9.000	-9.000	-999.	456.	120.2	0.56	0.86	1.00	3.10	38.	21.3	284.9	17.7
10	01	01	1	02	-26.9	0.285	-9.000	-9.000	-999.	367.	89.6	0.56	0.86	1.00	2.70	38.	21.3	284.2	17.7
10	01	01	1	03	-38.6	0.387	-9.000	-9.000	-999.	577.	164.6	0.56	0.86	1.00	3.60	35.	21.3	284.2	17.7
10	01	01	1	04	-33.0	0.331	-9.000	-9.000	-999.	458.	120.2	0.56	0.86	1.00	3.10	34.	21.3	283.8	17.7
10	01	01	1	05	-33.1	0.331	-9.000	-9.000	-999.	456.	120.2	0.56	0.86	1.00	3.10	37.	21.3	283.1	17.7

```
10 01 01   1 06  -38.7  0.387 -9.000 -9.000 -999.  577.    164.5  0.56   0.86   1.00    3.60   24.   21.3  283.1   17.7
10 01 01   1 07  -38.6  0.387 -9.000 -9.000 -999.  577.    164.5  0.56   0.86   1.00    3.60   35.   21.3  283.8   17.7
10 01 01   1 08  -29.6  0.435 -9.000 -9.000 -999.  688.    251.8  0.56   0.86   0.55    4.00   35.   21.3  283.8   17.7
10 01 01   1 09   30.0  0.426  0.367  0.008   59.  666.   -232.0  0.56   0.86   0.32    3.60   38.   21.3  286.4   17.7
10 01 01   1 10   72.3  0.359  0.629  0.008  124.  519.    -57.8  0.56   0.86   0.24    2.70   34.   21.3  290.4   17.7
10 01 01   1 11  104.4  0.321  0.998  0.008  344.  437.    -28.6  0.56   0.86   0.21    2.20   43.   21.3  292.5   17.7
10 01 01   1 12  115.1  0.283  1.156  0.008  484.  363.    -17.9  0.56   0.86   0.20    1.80   62.   21.3  295.9   17.7
10 01 01   1 13   91.4  0.406  1.130  0.008  568.  622.    -66.2  0.56   0.86   0.20    3.10  263.   21.3  294.2   17.7
10 01 01   1 14   89.3  0.316  1.168  0.008  642.  432.    -31.9  0.56   0.86   0.21    2.20  259.   21.3  294.9   17.7
10 01 01   1 15   42.6  0.295  0.928  0.008  675.  384.    -54.0  0.56   0.86   0.25    2.20  267.   21.3  294.9   17.7
10 01 01   1 16   12.0  0.359  0.609  0.008  680.  516.   -347.9  0.56   0.86   0.33    3.10  264.   21.3  292.5   17.7
10 01 01   1 17  -15.7  0.231 -9.000 -9.000 -999.  276.     70.7  0.56   0.86   0.60    2.20  288.   21.3  290.9   17.7
10 01 01   1 18   -6.1  0.135 -9.000 -9.000 -999.  124.     36.7  0.56   0.86   1.00    1.30  344.   21.3  289.2   17.7
10 01 01   1 19  -11.4  0.184 -9.000 -9.000 -999.  190.     49.2  0.56   0.86   1.00    1.80    2.   21.3  288.8   17.7
10 01 01   1 20  -17.4  0.229 -9.000 -9.000 -999.  263.     62.1  0.56   0.86   1.00    2.20   22.   21.3  288.1   17.7
10 01 01   1 21  -17.4  0.229 -9.000 -9.000 -999.  263.     61.9  0.56   0.86   1.00    2.20   40.   21.3  287.0   17.7
10 01 01   1 22  -11.5  0.184 -9.000 -9.000 -999.  190.     49.1  0.56   0.86   1.00    1.80  306.   21.3  287.0   17.7
10 01 01   1 23  -11.5  0.184 -9.000 -9.000 -999.  190.     49.0  0.56   0.86   1.00    1.80   45.   21.3  286.4   17.7
10 01 01   1 24  -11.5  0.184 -9.000 -9.000 -999.  190.     49.0  0.56   0.86   1.00    1.80   67.   21.3  286.4   17.7


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
10 01 01 01   17.7 0 -999.  -99.00   284.9   99.0  -99.00  -99.00
10 01 01 01   21.3 1   38.    3.10  -999.0   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\7427 Firmin Court 2nd 14 yrs.i                 ***        07/27/18
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2nd 14 yrs                                      ***        11:52:49
                                                                                                                  PAGE  24
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     L0001116    , L0001117    , L0001118    , L0001119    , L0001120    ,
                L0001121    , L0001122    , L0001123    , L0001124    , L0001125    , L0001126    , L0001127    , L0001128    ,
                L0001129    , L0001130    , L0001131    , L0001132    , L0001133    , L0001134    , L0001135    , L0001136    ,
                L0001137    , L0001138    , L0001139    , L0001140    , L0001141    , L0001142    , L0001143    ,  . . .      ,

                                     *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                          ** CONC OF DPM      IN MICROGRAMS/M**3                        **

   Y-COORD  |                                                 X-COORD (METERS)
   (METERS) |    384229.87    384246.59    384263.31    384280.03    384296.75    384313.47    384330.19    384346.91    384363.63
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3770302.50 |       0.00273      0.00466      0.01102      0.00699      0.00480      0.00370      0.00314      0.00271      0.00237
 3770285.20 |       0.00338      0.01257      0.01820      0.01765      0.00990      0.00606      0.00446      0.00360      0.00302
 3770267.90 |       0.00327      0.00692      0.01995      0.02305      0.01654      0.01228      0.00691      0.00504      0.00398
 3770250.60 |       0.00285      0.00450      0.00790      0.01922      0.02856      0.02193      0.01468      0.00786      0.00551
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3770233.30	0.00240	0.00338	0.00495	0.00780	0.01578	0.01773	0.02570	0.01815	0.00875
3770216.00	0.00203	0.00272	0.00366	0.00505	0.00747	0.01349	0.02211	0.02594	0.02379
3770198.70	0.00176	0.00225	0.00288	0.00375	0.00500	0.00711	0.01187	0.01679	0.02427
3770181.40	0.00156	0.00190	0.00237	0.00299	0.00376	0.00489	0.00673	0.01060	0.01829
3770164.10	0.00139	0.00166	0.00201	0.00246	0.00301	0.00372	0.00474	0.00637	0.00959
3770146.80	0.00126	0.00148	0.00175	0.00208	0.00248	0.00298	0.00364	0.00457	0.00602
3770129.50	0.00115	0.00133	0.00154	0.00179	0.00210	0.00247	0.00293	0.00353	0.00438
3770112.20	0.00106	0.00121	0.00137	0.00156	0.00180	0.00209	0.00242	0.00285	0.00340
3770094.90	0.00097	0.00109	0.00122	0.00137	0.00156	0.00179	0.00205	0.00236	0.00275
3770077.60	0.00089	0.00098	0.00109	0.00122	0.00137	0.00155	0.00175	0.00200	0.00228
3770060.30	0.00081	0.00089	0.00098	0.00109	0.00121	0.00135	0.00151	0.00171	0.00192
3770043.00	0.00074	0.00080	0.00088	0.00097	0.00108	0.00119	0.00132	0.00148	0.00165
3770025.70	0.00068	0.00073	0.00079	0.00087	0.00096	0.00106	0.00117	0.00129	0.00143
3770008.40	0.00063	0.00068	0.00073	0.00079	0.00086	0.00094	0.00104	0.00114	0.00124
3769991.10	0.00059	0.00063	0.00067	0.00072	0.00078	0.00085	0.00093	0.00101	0.00109
3769973.80	0.00055	0.00059	0.00062	0.00066	0.00072	0.00077	0.00083	0.00090	0.00096
3769956.50	0.00052	0.00055	0.00058	0.00061	0.00066	0.00070	0.00075	0.00080	0.00085

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001116 , L0001117 , L0001118 , L0001119 , L0001120 ,
L0001121 , L0001122 , L0001123 , L0001124 , L0001125 , L0001126 , L0001127 , L0001128 ,
L0001129 , L0001130 , L0001131 , L0001132 , L0001133 , L0001134 , L0001135 , L0001136 ,
L0001137 , L0001138 , L0001139 , L0001140 , L0001141 , L0001142 , L0001143 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 384380.35	384397.07	384413.79	384430.51	384447.23	384463.95	384480.67	384497.39	384514.11
3770302.50	0.00210	0.00190	0.00173	0.00157	0.00144	0.00133	0.00123	0.00114	0.00105
3770285.20	0.00259	0.00229	0.00203	0.00181	0.00165	0.00151	0.00139	0.00127	0.00116
3770267.90	0.00325	0.00278	0.00241	0.00209	0.00188	0.00173	0.00158	0.00143	0.00130
3770250.60	0.00428	0.00347	0.00291	0.00248	0.00222	0.00200	0.00180	0.00161	0.00145
3770233.30	0.00596	0.00454	0.00362	0.00301	0.00264	0.00234	0.00207	0.00183	0.00163
3770216.00	0.00995	0.00640	0.00474	0.00376	0.00319	0.00277	0.00241	0.00210	0.00184
3770198.70	0.01992	0.01101	0.00682	0.00503	0.00405	0.00336	0.00285	0.00244	0.00211
3770181.40	0.02500	0.02200	0.01259	0.00736	0.00538	0.00423	0.00346	0.00289	0.00245
3770164.10	0.02108	0.02901	0.01819	0.01447	0.00812	0.00570	0.00437	0.00352	0.00291
3770146.80	0.00872	0.01681	0.02256	0.02167	0.01753	0.00883	0.00595	0.00448	0.00356
3770129.50	0.00568	0.00803	0.01410	0.02307	0.02793	0.02204	0.00961	0.00629	0.00462
3770112.20	0.00418	0.00536	0.00740	0.01216	0.02151	0.02492	0.02339	0.01060	0.00658
3770094.90	0.00325	0.00396	0.00502	0.00680	0.01067	0.02328	0.02495	0.02099	0.01174
3770077.60	0.00263	0.00309	0.00373	0.00468	0.00624	0.00941	0.02103	0.02805	0.01749

3770060.30	0.00218	0.00250	0.00292	0.00349	0.00431	0.00561	0.00811	0.01630	0.02118
3770043.00	0.00184	0.00207	0.00235	0.00272	0.00321	0.00389	0.00495	0.00702	0.01271
3770025.70	0.00157	0.00174	0.00193	0.00217	0.00248	0.00287	0.00340	0.00417	0.00561
3770008.40	0.00136	0.00148	0.00162	0.00178	0.00198	0.00221	0.00249	0.00284	0.00332
3769991.10	0.00118	0.00127	0.00137	0.00148	0.00160	0.00174	0.00190	0.00206	0.00222
3769973.80	0.00102	0.00109	0.00117	0.00125	0.00133	0.00140	0.00149	0.00157	0.00162
3769956.50	0.00090	0.00095	0.00101	0.00107	0.00112	0.00116	0.00121	0.00124	0.00125

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001116 , L0001117 , L0001118 , L0001119 , L0001120 ,
L0001121 , L0001122 , L0001123 , L0001124 , L0001125 , L0001126 , L0001127 , L0001128 ,
L0001129 , L0001130 , L0001131 , L0001132 , L0001133 , L0001134 , L0001135 , L0001136 ,
L0001137 , L0001138 , L0001139 , L0001140 , L0001141 , L0001142 , L0001143 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	384530.83	384547.55	384564.27
3770302.50	0.00097	0.00089	0.00082
3770285.20	0.00107	0.00098	0.00089
3770267.90	0.00118	0.00107	0.00096
3770250.60	0.00131	0.00118	0.00104
3770233.30	0.00146	0.00131	0.00114
3770216.00	0.00163	0.00146	0.00126
3770198.70	0.00184	0.00163	0.00139
3770181.40	0.00211	0.00184	0.00155
3770164.10	0.00244	0.00209	0.00180
3770146.80	0.00289	0.00239	0.00201
3770129.50	0.00356	0.00283	0.00230
3770112.20	0.00466	0.00349	0.00270
3770094.90	0.00679	0.00457	0.00326
3770077.60	0.01312	0.00675	0.00416
3770060.30	0.02106	0.01458	0.00608
3770043.00	0.01620	0.02627	0.01275
3770025.70	0.00958	0.01154	0.00657
3770008.40	0.00400	0.00430	0.00333
3769991.10	0.00232	0.00234	0.00209
3769973.80	0.00163	0.00158	0.00147
3769956.50	0.00124	0.00119	0.00112

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001116 , L0001117 , L0001118 , L0001119 , L0001120 ,
L0001121 , L0001122 , L0001123 , L0001124 , L0001125 , L0001126 , L0001127 , L0001128 ,
L0001129 , L0001130 , L0001131 , L0001132 , L0001133 , L0001134 , L0001135 , L0001136 ,
L0001137 , L0001138 , L0001139 , L0001140 , L0001141 , L0001142 , L0001143 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
384316.78	3770081.36	0.00164	384338.40	3770053.13	0.00152
384290.31	3770038.57	0.00100	384317.67	3770025.77	0.00108

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.02901	AT (384397.07, 3770164.10, 126.50, 135.10, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.02856	AT (384296.75, 3770250.60, 126.90, 135.50, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.02805	AT (384497.39, 3770077.60, 122.20, 122.20, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.02793	AT (384447.23, 3770129.50, 125.20, 134.00, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.02627	AT (384547.55, 3770043.00, 120.30, 134.80, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.02594	AT (384346.91, 3770216.00, 127.20, 134.80, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.02570	AT (384330.19, 3770233.30, 126.80, 134.80, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.02500	AT (384380.35, 3770181.40, 126.50, 135.10, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.02495	AT (384480.67, 3770094.90, 123.50, 123.50, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.02492	AT (384463.95, 3770112.20, 124.30, 124.30, 0.00)	GC	UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 4 Warning Message(s)
A Total of 808 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 4 Calm Hours Identified

A Total of 804 Missing Hours Identified (1.83 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

ME W186	535	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	535	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	
MX W450	17521	CHKDAT: Record Out of Sequence in Meteorological File at:	14010101
MX W450	17521	CHKDAT: Record Out of Sequence in Meteorological File at:	2 year gap

****
*** AERMOD Finishes Successfully ***
****

EMFAC2014 for Los Angeles (SC) PM10 Running Exhaust Averages at bottom of the sheet

Area	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	2020 (gms/mile)	2021 (gms/mile)	2022 (gms/mile)	2023 (gms/mile)	2024 (gms/mile)	2025 (gms/mile)	2026 (gms/mile)	2027 (gms/mile)	2028 (gms/mile)	2029 (gms/mile)	2030 (gms/mile)	2031 (gms/mile)
Los Angeles (SC)	Annual	LDA	GAS	AllMYr	70	0.00169	0.001687	0.0017	0.001683	0.001684	0.001689	0.001665	0.001602	0.001502	0.001405	0.001316	0.001233
Los Angeles (SC)	Annual	LDA	DSL	AllMYr	70	0.010483	0.009107	0.008619	0.006882	0.005634	0.004794	0.003806	0.00304	0.00234	0.001931	0.00151	0.001337
Los Angeles (SC)	Annual	LDT1	GAS	AllMYr	70	0.002681	0.002535	0.002344	0.002297	0.002204	0.002129	0.002038	0.001914	0.001764	0.001627	0.001504	0.001387
Los Angeles (SC)	Annual	LDT1	DSL	AllMYr	70	0.130109	0.114105	0.09964	0.09184	0.082856	0.071468	0.058538	0.032944	0.021837	0.012414	0.007436	0.005442
Los Angeles (SC)	Annual	LDT2	GAS	AllMYr	70	0.001688	0.001685	0.001674	0.001687	0.001691	0.001695	0.001667	0.001597	0.001489	0.001387	0.001297	0.001215
Los Angeles (SC)	Annual	LDT2	DSL	AllMYr	70	0.004676	0.004151	0.003013	0.003677	0.003596	0.003549	0.003374	0.003225	0.003215	0.003209	0.00321	0.003149
Los Angeles (SC)	Annual	LHDT1	GAS	AllMYr	60	0.001082	0.001049	0.000929	0.000998	0.000977	0.000961	0.000947	0.000937	0.000929	0.00092	0.000906	0.000895
Los Angeles (SC)	Annual	LHDT1	DSL	AllMYr	60	0.025765	0.024584	0.018021	0.022004	0.02066	0.019311	0.017971	0.016666	0.015414	0.014204	0.013073	0.012013
Los Angeles (SC)	Annual	LHDT2	GAS	AllMYr	60	0.00078	0.000771	0.000726	0.000769	0.000774	0.000784	0.000796	0.000808	0.000821	0.000833	0.000844	0.000853
Los Angeles (SC)	Annual	LHDT2	DSL	AllMYr	60	0.019481	0.018217	0.013835	0.015638	0.014383	0.01318	0.012065	0.011042	0.010117	0.009307	0.008611	0.008022
Los Angeles (SC)	Annual	MDV	GAS	AllMYr	60	0.001425	0.001403	0.001407	0.001363	0.001353	0.001355	0.001339	0.001297	0.001229	0.001163	0.001103	0.001047
Los Angeles (SC)	Annual	MDV	DSL	AllMYr	60	0.005843	0.005241	0.003683	0.00427	0.003535	0.003195	0.002901	0.002499	0.002129	0.00182	0.001611	0.001457
Los Angeles (SC)	Annual	MHDT	GAS	AllMYr	55	0.000758	0.00075	0.00075	0.000752	0.000758	0.000766	0.000775	0.000784	0.000792	0.000799	0.000806	0.000812
Los Angeles (SC)	Annual	MHDT	DSL	AllMYr	55	0.06468	0.005851	0.005138	0.002687	0.00269	0.002685	0.002672	0.00265	0.002638	0.002623	0.002603	0.002583
Los Angeles (SC)	Annual	HHDT	GAS	AllMYr	55	0.000562	0.000589	0.000637	0.000648	0.000676	0.000703	0.000726	0.000748	0.000766	0.000782	0.000794	0.000805
Los Angeles (SC)	Annual	HHDT	DSL	AllMYr	55	0.017467	0.015542	0.010728	0.005082	0.005072	0.005042	0.004995	0.004948	0.004907	0.004853	0.004796	0.004748

		1 yr	14 yr	14 yr	2 yr
		2020	2023-2036	2037-2050	2021-2022
LDA	70	0.00910696	0.0025759	0.0005993	0.008863
LDT1	70	0.11410535	0.0289681	0.0034415	0.106873
LDT2	70	0.00415117	0.0032818	0.0031537	0.003582
MDV	60	0.00524136	0.00209	0.0007278	0.004462
LHDT1	60	0.02458352	0.0142206	0.0055763	0.021302
LHDT2	60	0.01821691	0.0097343	0.0053605	0.016026
MHDT	55	0.005851	0.002606	0.002430	0.005494
HHDT	55	0.015542	0.004825	0.004535	0.013135

2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
0.001157	0.001087	0.001023	0.000963	0.000911	0.000865	0.000823	0.000787	0.000756	0.00073	0.000709	0.000692	0.000678	0.000667	0.000658	0.000651	0.000646	0.000642	0.00064	0.00064
0.001143	0.001036	0.000948	0.000867	0.000795	0.000741	0.000698	0.000663	0.000635	0.000613	0.000596	0.000583	0.000572	0.000562	0.000556	0.000549	0.000543	0.000541	0.000538	0.000538
0.001284	0.001194	0.00111	0.001038	0.00098	0.000929	0.000883	0.000841	0.000804	0.000778	0.000754	0.000733	0.000715	0.0007	0.000687	0.000676	0.000668	0.000662	0.000657	0.000657
0.004736	0.004183	0.004052	0.003947	0.00386	0.003786	0.003681	0.003595	0.003554	0.00349	0.003461	0.003436	0.003415	0.003359	0.003313	0.003307	0.003271	0.003256	0.003256	0.003256
0.001139	0.001069	0.001006	0.000948	0.000896	0.000851	0.000811	0.000776	0.000747	0.000723	0.000703	0.000688	0.000675	0.000665	0.000657	0.000651	0.000646	0.000643	0.00064	0.00064
0.00315	0.003152	0.003154	0.003141	0.003144	0.003137	0.00314	0.003143	0.003145	0.003148	0.00315	0.003153	0.003155	0.003158	0.00316	0.003163	0.003165	0.003167	0.003169	0.003169
0.000887	0.000881	0.000871	0.000865	0.000867	0.000868	0.000869	0.000869	0.00087	0.000875	0.000878	0.000881	0.000882	0.000884	0.000885	0.000886	0.000887	0.000893	0.000896	0.000896
0.011076	0.010241	0.009482	0.008792	0.008182	0.007624	0.007127	0.006688	0.006316	0.005991	0.005716	0.005493	0.005267	0.005068	0.004876	0.004706	0.004541	0.004392	0.004263	0.004263
0.000861	0.000869	0.000876	0.00088	0.000885	0.00089	0.000893	0.000895	0.000897	0.000899	0.000901	0.000901	0.000902	0.000903	0.000903	0.000904	0.000904	0.000904	0.000904	0.000904
0.007522	0.007098	0.006726	0.006413	0.006157	0.005942	0.005761	0.005612	0.005492	0.0054	0.00533	0.005279	0.005239	0.005209	0.005184	0.005166	0.005153	0.005145	0.005136	0.005136
0.000994	0.000944	0.000895	0.000849	0.00081	0.000773	0.00074	0.000708	0.000678	0.000656	0.000635	0.000617	0.0006	0.000584	0.000571	0.000559	0.000548	0.000543	0.00054	0.00054
0.001346	0.001256	0.001164	0.001075	0.001002	0.000935	0.00088	0.000831	0.00079	0.000755	0.000725	0.000703	0.000684	0.00067	0.000658	0.000649	0.000642	0.000636	0.000631	0.000631
0.000817	0.000821	0.000825	0.000828	0.000831	0.000833	0.000835	0.000837	0.000838	0.000839	0.000839	0.00084	0.000841	0.000841	0.000841	0.000842	0.000842	0.000842	0.000842	0.000842
0.002565	0.002549	0.002532	0.002513	0.002495	0.002478	0.002464	0.002453	0.002443	0.002434	0.002428	0.002423	0.002419	0.002417	0.002415	0.002414	0.002413	0.002413	0.002413	0.002413
0.000813	0.00082	0.000826	0.00083	0.000833	0.000836	0.000838	0.000839	0.00084	0.000841	0.000841	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842
0.004701	0.004656	0.004611	0.004576	0.004557	0.004543	0.004536	0.004531	0.00453	0.00453	0.004531	0.004534	0.004536	0.004537	0.004537	0.004537	0.004536	0.004535	0.004536	0.004536

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Appendix D

Firmin Court Project Noise Impact Analysis (Noise Report)

FIRMIN COURT PROJECT NOISE IMPACT ANALYSIS

City of Los Angeles

November 5, 2018

gandhi

Traffic Engineering ● Transportation Planning ● Parking ● Noise & Vibration
Air Quality ● Global Climate Change ● Health Risk Assessment

FIRMIN COURT PROJECT
NOISE IMPACT ANALYSIS

City of Los Angeles

November 5, 2018

prepared by

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18-0163

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EXECUTIVE SUMMARY

The purpose of this report is to provide an assessment of the noise impacts resulting from development of the proposed Firmin Court project and to identify mitigation measures that may be necessary to reduce those impacts. The noise issues related to the proposed land use and development have been evaluated in the context of the California Environmental Quality Act.

Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with those terms unique to noise analysis, a list of acronyms is provided in Appendix A and definitions of acoustical terms are provided in Appendix B of this report.

PROJECT LOCATION

The project site is located at 418, 426, and 430 North Firmin Street in the City of Los Angeles. The General Plan land use designation for the site is Medium Residential. The site is currently developed with two single-family detached residential dwelling units. A vicinity map showing the project location is provided on Figure 1.

PROJECT DESCRIPTION

The project proposes to construct 42 permanent supportive housing dwelling units and 22 affordable family housing dwelling units. Figure 2 illustrates the proposed site plan.

CONSTRUCTION NOISE MEASURES

In addition to adherence to the City of Los Angeles' policies found in the Noise Element and Municipal Code limiting the construction hours of operation, the following measures are recommended to reduce construction noise and vibrations emanating from the proposed project:

1. During all project site excavation and grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards.

2. The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the project site.

3. Equipment shall be shut off and not left to idle when not in use.

4. The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the project site during all project construction.

5. Pile drivers shall not be utilized on the project site.

6. Vibrator rollers and/or any other equivalent vibratory equipment shall not be utilized within 22 feet and bulldozers within 10 feet of existing structures to remain. A backhoe may be utilized for demolition and soil compaction within 22 feet of the existing structures.

1. INTRODUCTION

This section describes the purpose of this noise impact analysis, project location, proposed development, and study area. Figure 1 shows the project location map and Figure 2 illustrates the project site plan.

PURPOSE AND OBJECTIVES

The purpose of this report is to provide an assessment of the noise impacts resulting from development of the proposed Firmin Court project and to identify mitigation measures that may be necessary to reduce those impacts. The noise issues related to the proposed land use and development have been evaluated in the context of the California Environmental Quality Act.

Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with those terms unique to noise analysis, a list of acronyms is provided in Appendix A and definitions of acoustical terms are provided in Appendix B of this report.

PROJECT DESCRIPTION

The project proposes to construct 42 permanent supportive housing dwelling units and 22 affordable family housing dwelling units. Figure 2 illustrates the proposed site plan.

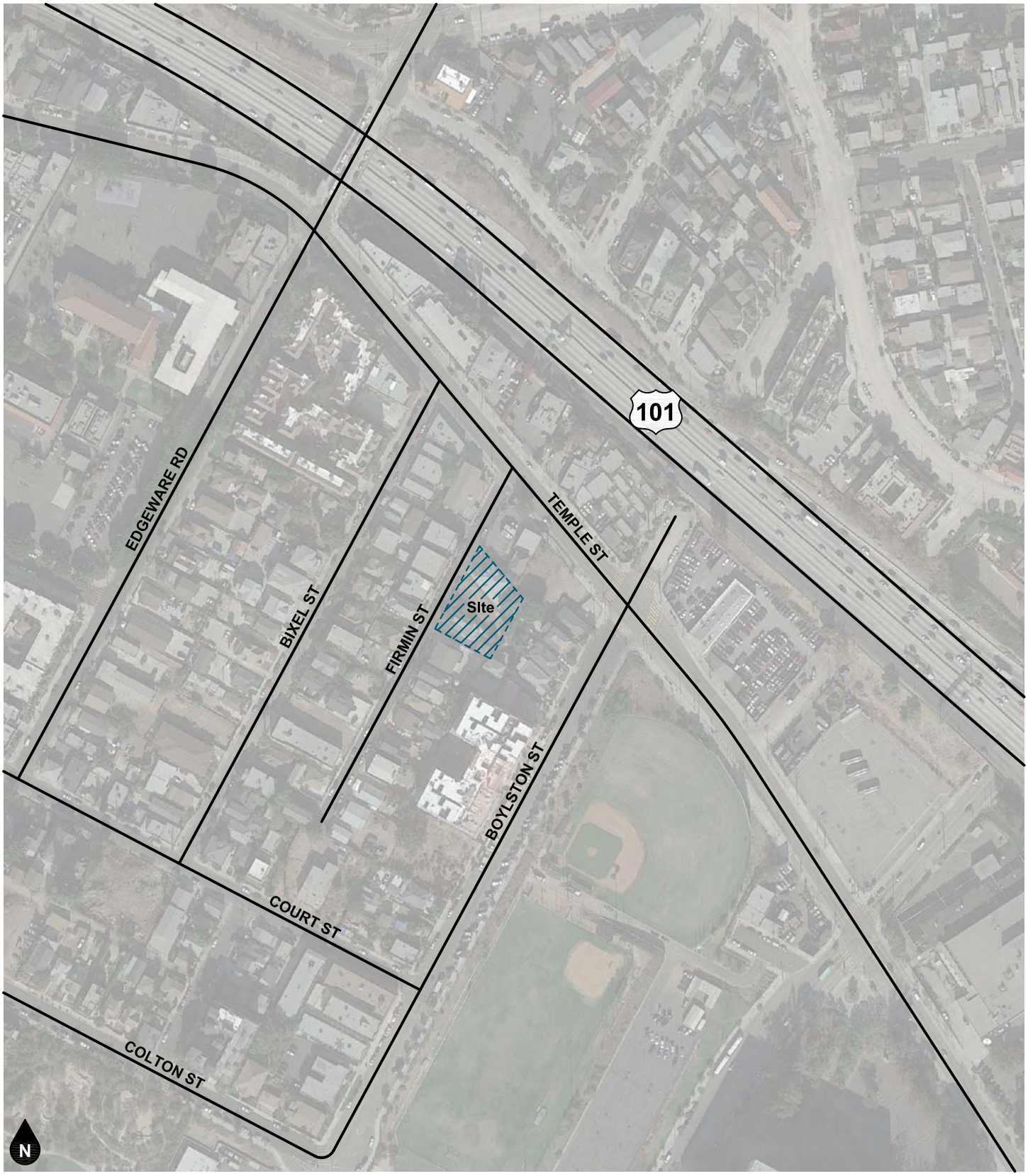


Figure 1
Project Location Map

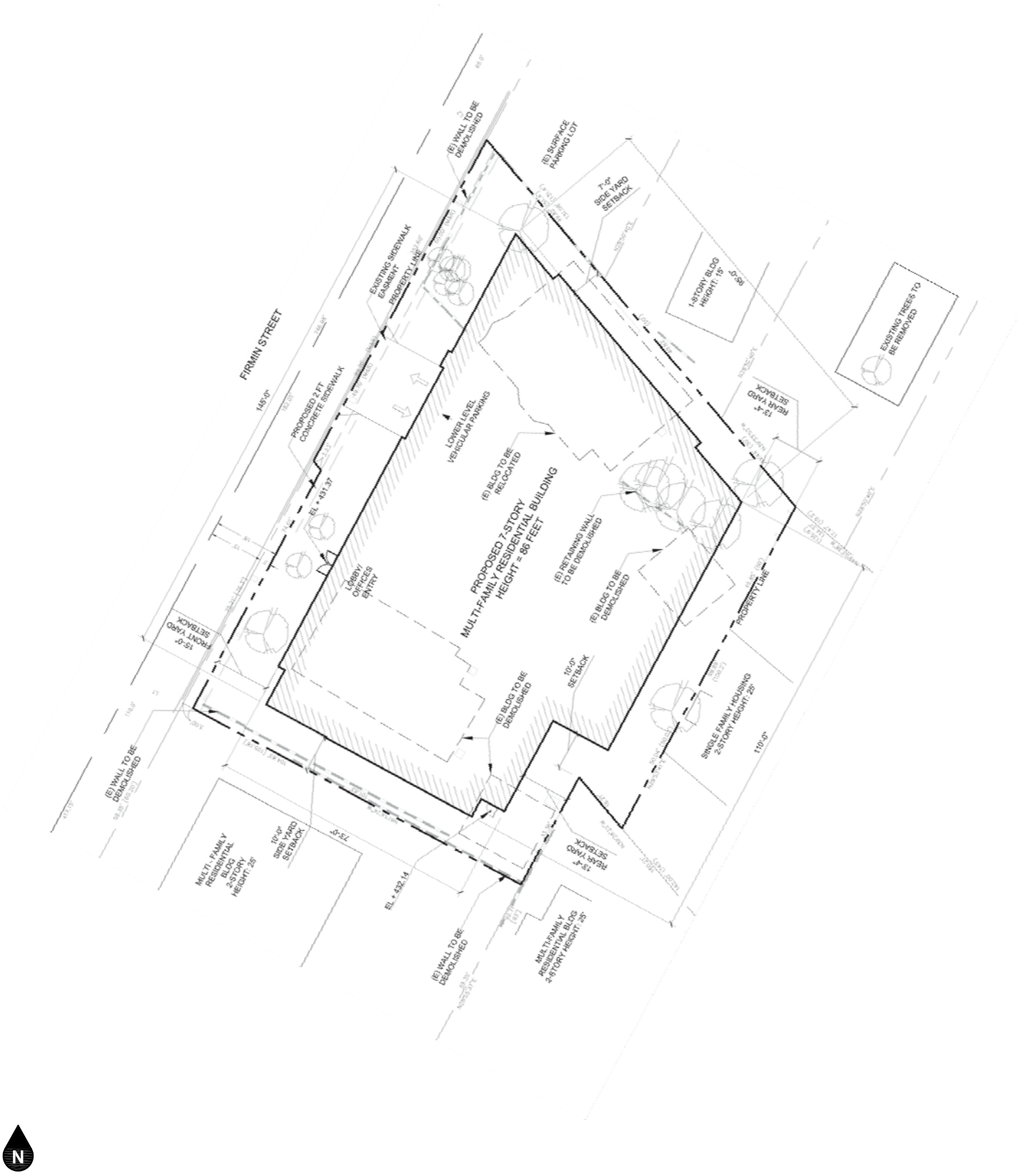


Figure 2
Site Plan

2. NOISE AND VIBRATION FUNDAMENTALS

NOISE FUNDAMENTALS

Sound is a pressure wave created by a moving or vibrating source that travels through an elastic medium such as air. Noise is defined as unwanted or objectionable sound. The effects of noise on people can include general annoyance, interference with speech communication, sleep disturbance, and in extreme circumstances, hearing impairment.

Commonly used noise terms are presented in Appendix B. The unit of measurement used to describe a noise level is the decibel (dB). The human ear is not equally sensitive to all frequencies within the sound spectrum. Therefore, the "A-weighted" noise scale, which weights the frequencies to which humans are sensitive, is used for measurements. Noise levels using A-weighted measurements are written dB(A) or dBA.

From the noise source to the receiver, noise changes both in level and frequency spectrum. The most obvious is the decrease in noise as the distance from the source increases. The manner in which noise reduces with distance depends on whether the source is a point or line source as well as ground absorption, atmospheric effects and refraction, and shielding by natural and manmade features. Sound from point sources, such as air conditioning condensers, radiates uniformly outward as it travels away from the source in a spherical pattern. The noise drop-off rate associated with this geometric spreading is 6 dBA per each doubling of the distance (dBA/DD). Transportation noise sources such as roadways are typically analyzed as line sources, since at any given moment the receiver may be impacted by noise from multiple vehicles at various locations along the roadway. Because of the geometry of a line source, the noise drop-off rate associated with the geometric spreading of a line source is 3 dBA/DD.

Decibels are measured on a logarithmic scale, which quantifies sound intensity in a manner similar to the Richter scale used for earthquake magnitudes. Thus, a doubling of the energy of a noise source, such as a doubled traffic volume, would increase the noise levels by 3 dBA; halving of the energy would result in a 3 dBA decrease.

Figure 3 shows the relationship of various noise levels to commonly experienced noise events.

Average noise levels over a period of minutes or hours are usually expressed as dBA L_{eq}, or the equivalent noise level for that period of time. For example, $L_{eq(3)}$ would represent a 3-hour average. When no period is specified, a one-hour average is assumed.

Noise standards for land use compatibility are stated in terms of the Community Noise Equivalent Level (CNEL) and the Day-Night Average Noise Level (L_{dn}). CNEL is a 24-hour weighted average measure of community noise. CNEL is obtained by adding five decibels to sound levels in the evening (7:00 PM to 10:00 PM), and by adding ten decibels to sound levels at night (10:00 PM to 7:00 AM). This weighting accounts for the increased human sensitivity to noise during the evening and nighttime hours. L_{dn} is a very similar 24-hour average measure that weights only the nighttime hours.

It is widely accepted that the average healthy ear can barely perceive changes of 3 dBA; that a change of 5 dBA is readily perceptible, and that an increase (decrease) of 10 dBA sounds twice (half) as loud. This definition is recommended by the California Department of Transportation's Technical Noise Supplement to the Traffic Noise Analysis Protocol (2013).

VIBRATION FUNDAMENTALS

The way in which vibration is transmitted through the earth is called propagation. Propagation of earthborn vibrations is complicated and difficult to predict because of the endless variations in the soil through which waves travel. There are three main types of vibration propagation: surface, compression and shear waves.

Surface waves, or Raleigh waves, travel along the ground's surface. These waves carry most of their energy along an expanding circular wave front, similar to ripples produced by throwing a rock into a pool of water. Compression waves, or P-waves, are body waves that carry their energy along an expanding spherical wave front. The particle motion in these waves is longitudinal (i.e., in a "push-pull" fashion). P-waves are analogous to airborne sound waves. Shear waves, or S-waves, are also body waves that carry energy along an expanding spherical wave front. However, unlike P-waves, the particle motion is transverse or "side-to-side and perpendicular to the direction of propagation."

As vibration waves propagate from a source, the energy is spread over an ever-increasing area such that the energy level striking a given point is reduced with the distance from the energy source. This geometric spreading loss is inversely proportional to the square of the distance. Wave energy is also reduced with distance as a result of material damping in the form of internal friction, soil layering, and void spaces. The amount of attenuation provided by material damping varies with soil type and condition as well as the frequency of the wave.

Construction operations generally include a wide range of activities that can generate groundborne vibration. Vibratory compactors or rollers, pile drivers, and pavement breakers can generate vibration levels that can be annoying to people and possible at up to 60 feet and possibly result in architectural damage to normal buildings with plastered walls and ceilings at a distance of 25 feet. Heavy trucks can also generate groundborne vibrations, which can vary depending on vehicle type, weight, and pavement conditions. Groundborne vibration associated with loaded trucks may result in vibration levels that are annoying at a distance of 25 feet and could possibly result in architectural damage to normal buildings at a distance of 10 feet. Potholes, pavement joints, discontinuities, or the differential settlement of pavement all increase the vibration levels from vehicles passing over a road surface. Construction vibration is normally of greater concern than vibration from normal traffic flows on streets and freeways with smooth pavement conditions.

Typically, particle velocity or acceleration (measured in gravities) is used to describe vibration. Table 1 shows the peak particle velocities (PPV) of some common construction equipment.

Table 1
Vibration Source Levels for Cosntruction Equipment[1]

Equipment	Peak Partical Velocity in inches per second[2]		
	at 25 feet	at 50 feet	at 100 feet
Clam Shovel Drop (slurry wall)	**0.202**	0.071	0.025
Vibratory Roller	**0.210**	0.074	0.026
Hoe Ram	**0.089**	0.031	0.011
Large Bulldozer	**0.089**	0.031	0.011
Caisson Drilling	**0.089**	0.031	0.011
Loaded Trucks	0.076	0.027	0.010
Jackhammer	0.035	0.012	0.004
Small Bulldozer	0.003	0.001	0.0004

Notes:

(1) Source: Federal Transit Administration: Transit Noise and Vibration Impact Assessment, 2006.

(2) Bold values are considered annoying to people.

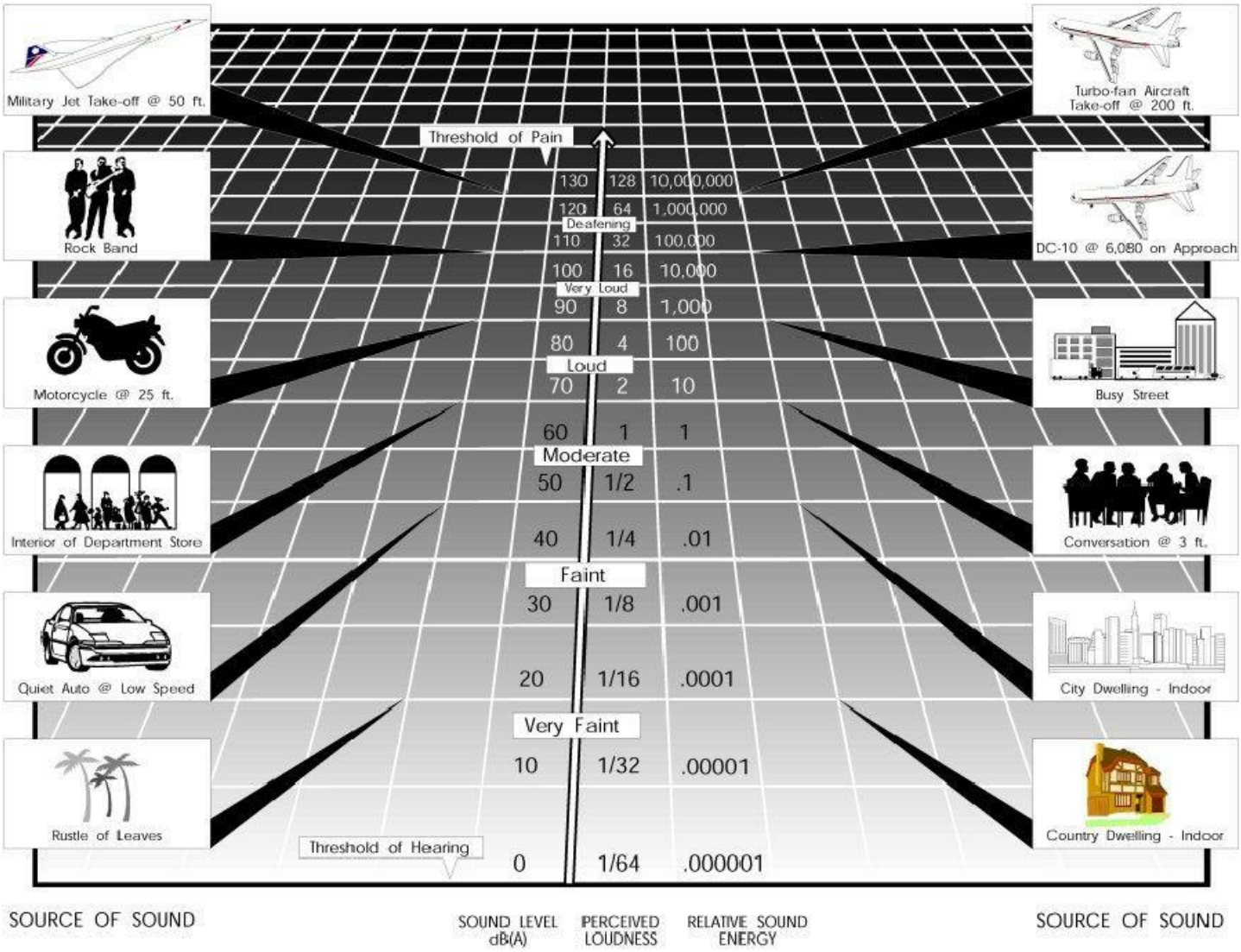


Figure 3
Common Noise Sources and Noise Levels

3. EXISTING NOISE ENVIRONMENT

EXISTING LAND USES AND SENSITIVE RECEPTORS

The project site is bordered by single-family detached and multi-family attached residential dwelling units to the south and east. Firmin Street is adjacent to the west. Noise sensitive land uses include the single-family detached and multi-family attached residential dwelling units adjacent to the south and east.

The State of California defines sensitive receptors as those land uses that require serenity or are otherwise adversely affected by noise events or conditions. Schools, libraries, churches, hospitals, single and multi-family residential, including transient lodging, motels and hotel uses make up the majority of these areas. Sensitive receptors that may be affected by project generated noise include the single-family detached and multi-family attached residential dwelling units located adjacent to the south and east and the multi-family attached residential dwelling units located approximately 35 feet west (across Firmin Street). Echo Park Congregation Church is located approximately 45 feet northwest (across Firmin Street). In addition, the fields for Civitas School of Leadership and Edward R. Roybal Learning Center School are located as close as approximately 210 feet southeast and Betty Plascentia Elementary School and Angelina Preschool are located approximately 575 feet west.

AMBIENT NOISE MEASUREMENTS

An American National Standards Institute (ANSI Section SI4 1979, Type 1) Larson Davis model LxT sound level meter was used to document existing ambient noise levels. In order to document existing ambient noise levels in the project area, two (2) 10-minute daytime noise measurements were taken between 2:07 PM and 2:40 PM on May 17, 2018 and one 24-hour noise measurement was taken between 4:00 PM on May 17, 2018 and 4:00 PM on May 18, 2018. Field worksheets and noise measurement output data are included in Appendix C.

As shown on Figure 4, the short-term noise measurements were taken near Echo Park Congregation Church (along Firmin Street), at the single-family detached residential dwelling units to the southeast of the project site (along Boylston Street), and to the north of the project site near existing commercial and residential uses. Table 2 provides a summary of the short-term ambient noise data. A summary of the long-term ambient noise data is presented in Table 3. Short-term ambient noise levels were measured between 63.2 and 66.3 dBA L_{eq}. Long-term hourly noise measurement ambient noise levels ranged from 63.9 to 68.9 dBA L_{eq}. The dominant noise source in the project area is vehicle noise from the U.S. 101 Freeway and West Temple Street.

Table 2
Short-Term Noise Measurement Summary (dBA)[1, 2]

Daytime							
Site Location	Time Started	Leq	Lmax	L(2)	L(8)	L(25)	L(50)
STNM1	2:07 PM	66.3	82.3	71.9	69.4	66.7	63.8
STNM2	2:30 PM	63.2	70.9	66.0	65.2	64.0	62.8

Notes:

(1) See Figure 4 for noise measurement locations. Each noise measurement was performed over a 10-minute duration.

(2) Noise measurements performed by Kunzman Associates, Inc. on May 17, 2018.

Table 3

Long-Term Noise Measurement Summary (dBA)[1, 2]

Time Interval	Leq	Lmax	L(2)	L(8)	L(25)	L(50)
Overall Summary	67.3	96.5	71.5	69.6	67.8	66
4:00 PM	67.7	91.2	71.4	69.2	67.2	65.0
5:00 PM	66.3	90.0	70.4	69.0	67.0	64.8
6:00 PM	66.1	74.6	70.3	68.9	67.5	65.4
7:00 PM	65.6	75.9	70.2	68.4	66.6	64.8
8:00 PM	65.5	81.3	69.5	67.5	66.0	64.5
9:00 PM	64.8	76.1	68.5	67.3	65.7	64.2
10:00 PM	68.5	91.3	71.5	69.3	68.2	67.2
11:00 PM	68.6	89.5	71.6	69.9	68.5	67.3
12:00 AM	67.0	71.7	69.8	68.8	67.8	66.8
1:00 AM	66.1	75.4	69.4	68.1	66.8	65.6
2:00 AM	63.9	77.6	69.0	66.5	64.5	62.8
3:00 AM	64.5	80.3	69.1	66.5	64.7	63.3
4:00 AM	68.7	96.5	68.4	66.4	65.1	63.7
5:00 AM	67.0	76.6	70.6	69.3	68.0	66.7
6:00 AM	67.4	74.5	70.8	69.5	68.2	67.0
7:00 AM	68.8	76.5	72.7	71.1	69.7	68.3
8:00 AM	68.2	79.0	72.5	70.9	69.2	67.5
9:00 AM	68.8	87.3	73.5	70.9	69.1	67.5
10:00 AM	68.4	80.3	72.7	70.6	69.1	67.6
11:00 AM	67.8	88.4	72.7	69.7	67.7	65.7
12:00 PM	67.4	85.5	72.4	70.0	68.2	66.4
1:00 PM	68.9	91.7	73.0	70.5	68.7	67.0
2:00 PM	66.2	79.8	71.4	69.2	67.3	65.4
3:00 PM	66.5	79.5	71.4	69.6	67.7	65.7

Notes:

(1) See Figure 4 for noise measurement locations. Noise measurements were performed over a 24-hour period.

(2) Noise measurements were performed from May 17, 2018 to May 18, 2018.



Legend
⊕ Noise Measurement Location
NM 1

Figure 4
Noise Measurement Location Map

4. REGULATORY SETTING

FEDERAL REGULATION

Federal Noise Control Act of 1972

The U.S. Environmental Protection Agency (EPA) Office of Noise Abatement and Control was originally established to coordinate federal noise control activities. After its inception, EPA's Office of Noise Abatement and Control issued the Federal Noise Control Act of 1972, establishing programs and guidelines to identify and address the effects of noise on public health, welfare, and the environment. In response, the EPA published Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety (Levels of Environmental Noise). The Levels of Environmental Noise recommended that the Ldn should not exceed 55 dBA outdoors or 45 dBA indoors to prevent significant activity interference and annoyance in noise-sensitive areas.

In addition, the Levels of Environmental Noise identified five (5) dBA as an "adequate margin of safety" for a noise level increase relative to a baseline noise exposure level of 55 dBA Ldn (i.e., there would not be a noticeable increase in adverse community reaction with an increase of five dBA or less from this baseline level). The EPA did not promote these findings as universal standards or regulatory goals with mandatory applicability to all communities, but rather as advisory exposure levels below which there would be no risk to a community from any health or welfare effect of noise.

In 1981, EPA administrators determined that subjective issues such as noise would be better addressed at lower levels of government. Consequently, in 1982 responsibilities for regulating noise control policies were transferred to State and local governments. However, noise control guidelines and regulations contained in EPA rulings in prior years remain in place by designated Federal agencies, allowing more individualized control for specific issues by designated Federal, State, and local government agencies.

STATE REGULATIONS

State of California General Plan Guidelines 2017

Though not adopted by law, the State of California General Plan Guidelines 2017, published by the California Governor's Office of Planning and Research (OPR) (OPR Guidelines), provide guidance for the compatibility of projects within areas of specific noise exposure. The OPR Guidelines identify the suitability of various types of construction relative to a range of outdoor noise levels and provide each local community some flexibility in setting local noise standards that allow for the variability in community preferences. Findings presented in the Levels of Environmental Noise Document (EPA 1974) influenced the recommendations of the OPR Guidelines, most importantly in the choice of noise exposure metrics (i.e., Ldn or CNEL) and in the upper limits for the Normally Acceptable outdoor exposure of noise-sensitive uses. The OPR Guidelines include a Noise and Land Use Compatibility Matrix identifies acceptable and unacceptable community noise exposure limits for various land use categories. The City of Los Angeles has adopted a version of this matrix.

LOCAL REGULATIONS

City of Los Angeles General Plan

Applicable policies and standards governing environmental noise in the City are set forth in the General Plan Noise Element. Those applicable to the proposed project are presented below:

Goals, Objectives, and Policies

The Noise Element of the City of Los Angeles General Plan describes the citywide noise environment (including ambient noise levels and noise sources), projects future noise levels, and recommends noise mitigation and strategies. The City has adopted the following objectives and policies as tools to achieve and maintain the City's goal of having "a city where noise does not reduce the quality of urban life."

Goal	A city where noise does not reduce the quality of urban life.
Objective 2	Reduce or eliminate non-airport related intrusive noise, especially relative to noise sensitive uses.
Policy 2.2	Enforce and/or implement applicable city, state and federal regulations intended to mitigate proposed noise producing activities, reduce intrusive noise and alleviate noise that is deemed a public nuisance.
Objective 3	Reduce or eliminate noise impacts associated with proposed development of land and changes in land use.
Policy 3.1:	Develop land use policies and programs that will reduce or eliminate potential and existing noise impacts.

Implementation:
For a proposed development project that is deemed to have a potentially significant noise impact on noise sensitive uses, as defined by this chapter, require mitigation measures, as appropriate, in accordance with California Environmental Quality Act and city procedures.

In addition to the above listed objectives and policies, the City of Los Angeles has adopted local guidelines based, in part, on the State Department of Health services noise compatibility guidelines, which are used for planning purposes (i.e., they have no regulatory enforcement). These guidelines, contained in the Los Angeles CEQA Thresholds Guide adopted in 2006, are intended to assist in land use siting decisions in relation to existing and future exterior noise levels.

City of Los Angeles Municipal Ordinance

The City of Los Angeles has several ordinances and enforcement practices that apply to intrusive noise as well as ones that regulate construction activity. The noise ordinance has been reviewed and various sections have been outlined which would apply to the project.

Chapter XI - Noise Regulation

Noise Impacts to Adjacent Properties

The City has established exterior noise level limits that are not to be exceeded at the property line. Exterior noise level limits are based on a presumed ambient noise level and then additional noise level restrictions based on the type of noise source (e.g., construction, HVAC, Radios, etc.) may be applied. Presumed ambient noise levels are shown in Table 4. Where the ambient noise level is less than the presumed ambient noise level, the presumed ambient noise level shall be deemed to be the minimum ambient noise level. At the boundary line between two zones, the presumed ambient noise level of the quieter zone shall be used.

The project will be required to comply with Section 113.01 of the municipal code prohibits the operation of any refuse disposal truck, parking lot sweeper, or vacuum truck within 200 feet of any residential building between the hours of 9:00 PM and 6:00 AM of the following day, unless a permit therefore has been duly obtained beforehand from the Board of Police Commissioners.

The project will be required to comply with Section of the Municipal Code 114.03 prohibits loading or unloading any vehicle and operation of any dollies, carts, forklifts, or other wheeled equipment which causes any impulsive sound, raucous or unnecessary noise within 200 feet of any residential building between the hours of 10:00 PM and 7:00 AM of the following day.

Construction Related Noise

Section 41.40 of the Los Angeles Municipal Code prohibits construction activity (including demolition) and repair work, where the use of any power tool, device, or equipment would disturb persons occupying sleeping quarters in any dwelling hotel, apartment, or other place of residence, between the hours of 9:00 PM and 7:00 AM Monday through Friday, and between 6:00 PM and 8:00 AM on Saturday. All such activities are also prohibited on Sundays and all federal holidays.

Section 112.05 of the Los Angeles Municipal Code also prohibits operation of any powered equipment or powered hand tool that exceeds the following noise limits at a distance of 50 feet between the hours of 7:00 AM and 10:00 PM:

(a) 75 dBA for construction, industrial, and agricultural machinery including crawler-tractors, dozers, rotary drills and augers, loaders, power shovels, cranes, derricks, motor graders, paving machines, off-highway trucks, ditchers, trenchers, compactors, scrapers, wagons, pavement breakers, compressors and pneumatic or other powered equipment.

The above noise level limitations do not apply where compliance is deemed to be technically infeasible, which means that said noise limitations cannot be met despite the use of mufflers, shields, sound barriers, and/or other noise reduction device or techniques during the operation of the equipment.

Los Angeles CEQA Threshold Guide

The Los Angeles Threshold Guide provides screening criteria and significance thresholds that are applicable project construction noise, stationary noise, and project generated vehicle noise. Applicable thresholds are presented below.

Construction Noise Significance Thresholds

A project would normally have a significant impact on noise levels from construction if:

- Construction activities lasting more than one day would exceed existing ambient exterior noise levels by 10 dBA or more at a noise sensitive use;
- Construction activities lasting more than 10 days in a three month period would exceed existing ambient exterior noise levels by 5 dBA or more at a noise sensitive use; or
- Construction activities would exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 PM and 7:00 AM on Monday through Friday, before 8:00 AM or after 6:00 PM on Saturday, or at any time on Sunday.

Operational Noise Significance Thresholds

- A project would normally have a significant impact on noise levels from project operations if the project causes the ambient noise level measured at the property line of affected uses to increase by 3 dBA in CNEL to or within the "normally unacceptable" or "clearly unacceptable" category (see Table 5), or any 5 dBA or greater noise increase.

Table 4
Presumed Ambient Noise Level[1]

Zone	Presumed Ambient Noise Level (dB(A))	
	Day	Night
A1, A2, RA, RE, RS, RD, RW1, RW2, R1, R2, R3, R4, and R5	50	40
P, PB, CR, C1, C1.5, C2, C4, C5, and CM	60	55
M1, MR1, and MR2	60	55
M2 and M3	65	65

Notes:

(1) Source: City of Los Angeles Municipal Code, Chapter XI, Table 2.

Table 5
Community Noise Exposure Thresholds[1]

Land Use	Community Noise Exposure CNEL, db			
	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable
Single Family, Duplex, Mobile Homes	50 - 60	55 - 70	70 - 75	above 70
Multi-Family Homes	50 - 65	60 - 70	70 - 75	above 70
Schools, Libraries, Churches, Hospitals, Nursing Homes	50 - 70	60 - 70	70 - 80	above 80
Transient Lodging - Motels, Hotels	50 - 65	60 - 70	70 - 80	above 80
Auditoriums, Concert Halls, Amphitheaters		50 - 70		above 65
Sports Arena, Outdoor Spectator Sports		50 - 75		above 70
Playgrounds, Neighborhood Parks	50 - 70		67 - 75	above 72
Golf Courses, Riding Stables, Water Recreation, Cemeteries	50 - 75		70 - 80	above 80
Office Buildings, Business and Professional Commercial	50 - 70	67 - 77	above 75	
Industrial, Manufacturing, Utilities, Agriculture	50 - 75	70 - 80	above 75	
Normally Acceptable: Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.				
Conditionally Acceptable: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.				
Normally Unacceptable: New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.				
Clearly Unacceptable: New construction or development should generally not be undertaken.				

Notes:

(1) Source: California Department of Health Services (DHS).

5. ANALYTICAL METHODOLOGY AND MODEL PARAMETERS

This section discusses the analysis methodologies used to assess noise impacts.

NOISE MODELING AND INPUT

Road Construction Model

A worst-case construction noise scenario was modeled using a version of the Federal Highway Administration's Roadway Construction Noise Model (RCNM). RCNM utilizes standard noise emission levels for many different types of equipment and includes utilization percentage, impact, and shielding parameters. Construction noise levels are provided in Leq. They were then used as noise reference levels in the SoundPLAN noise model so that mitigation could be modeled. The SoundPLAN results shown on Figure 5 and Figure 6 were then converted to CNEL in order to evaluate project construction noise in light of the City of Los Angeles CEQA thresholds. RCNM and SoundPLAN Construction Noise modeling input parameters and output are provided in Appendix D.

Federal Highway Administration (FHWA) Traffic Noise Prediction Model

Existing, Existing Plus Project, and Future noise levels were modeled for roadways affected by project generated traffic utilizing the FHWA Traffic Noise Prediction Model FHWA-RD-77-108 in order to quantify the proposed project's contribution to increases in ambient noise levels.

The FHWA Traffic Noise Prediction Model arrives at a predicted noise level through a series of adjustments to the Reference Energy Mean Emission Level (REMEL). Adjustments are then made to the REMEL to account for: total average daily trips (ADT), roadway classification, width, speed and truck mix, roadway grade and site conditions (hard or soft ground surface). Surfaces adjacent to all modeled roadways were assumed to have a "hard site" to predict worst-case, conservative noise levels. A hard site, such as pavement, is highly reflective and does not attenuate noise as quickly as grass or other soft sites. Possible reductions in noise levels due to intervening topography and buildings were not accounted for in this analysis.

Existing, future, and project generated vehicle trips were calculated from the project's Technical Memorandum prepared by Linscott, Law & Greenspan, Engineers (June 2018). Vehicle speeds were based on posted speed limits. FHWA worksheets are included in Appendix E.

SoundPLAN

The SoundPLAN software utilizes algorithms (based on the inverse square law) to calculate noise level projections. The software allows the user to input specific noise sources, spectral content, sound barriers, building placement, topography, and sensitive receptor locations.

The SoundPLAN model was utilized to calculate construction noise levels associated with the proposed project using reference sound level data for the various pieces of construction equipment. Construction equipment noise reference levels found in the FHWA RCNM Handbook were utilized for modeling purposes.

The SoundPLAN model was also utilized to model construction noise and traffic noise associated with the U.S. 101 Freeway and Temple Street. It is a three-dimensional noise modeling software that takes into account the shielding and reflective effects associated with intervening topography and nearby buildings.

Roadway parameters utilized in the noise model include location, traffic volume, speed and vehicle mix (autos, medium trucks, and heavy trucks). The City of Los Angeles Mobility Plan 2035 identifies Temple Street as an Avenue II Roadway. As the City of Los Angeles and the County of Los Angeles do not provide future buildout roadway capacities, per the County of Riverside Industrial Hygiene Guidelines for Determining and Mitigating

Traffic Noise Impacts to Residential Structures and County of Riverside General Plan, Chapter 4, Figure C-3 "Link Volume Capacities/Level of Service for Riverside County Roadways" revised March 2001, future buildout noise levels associated with these roadways were modeled using Average Daily Trip (ADT) Level of Service "C" design capacities (also known as future build-out daily traffic volumes). West Temple Street is expected to accommodate up to 20,700 vehicles per day at the Level of Service C. Speed was modeled as posted and day/night/evening mixes and truck mixes, as recommended by the County of Riverside Department of Industrial Hygiene were utilized for modeling purposes.

The vehicle mix (96.7% autos, 2.38% medium trucks and 0.92% heavy trucks) found in data provided by the California Department of Transportation (http://traffic-counts.dot.ca.gov/) were utilized to model future noise levels associated with the U.S. 101 Freeway. SoundPLAN input and output data for traffic noise to the project is provided in Appendix F.

6. IMPACT ANALYSIS

This impact discussion analyzes the potential for project construction noise and operational noise to cause an exposure of person to or generation of noise levels in excess of established City of Los Angeles noise standards related to construction noise, transportation, and stationary related noise impacts caused by the proposed project.

CONSTRUCTION NOISE

Impact Analysis/Modeling Results

Project generated construction noise will vary depending on the construction process, type of equipment involved, location of the construction site with respect to sensitive receptors, the schedule proposed to carry out each task (e.g., hours and days of the week) and the duration of the construction work.

Demolition would be required to remove the two existing single-family detached residential dwelling units from the project site. Noise levels associated with equipment used during the demolition and site preparation phase of construction are shown in Table 6. Typical operating cycles for these types of construction equipment may involve one or two minutes of full power operation followed by three to four minutes at lower power settings.

A likely worst-case construction noise scenario assuming the use of a grader, a dozer, an excavator, a water truck (modeled as a dump truck) and a backhoe was calculated using the Federal Highway Administration's Roadway Construction Noise Model (RCNM) (see Appendix D) and then the noise reference levels were used to model construction in the SoundPLAN model in order to evaluate possible mitigation scenarios. The equipment was modeled in the acoustic center of the project site approximately 50 feet from the property line. Assuming a use factor of 40 percent for each piece of equipment (with the exception of the concrete saw which is 20 percent), unmitigated noise levels could reach 83 CNEL at the nearest sensitive receptor during the demolition. RCNM output is in Appendix D and SoundPLAN data is in Appendix E.

City of Los Angeles CEQA Thresholds

A project would normally have a significant impact on noise levels from construction if:

- Construction activities lasting more than one day would exceed existing ambient exterior noise levels by 10 dBA or more at a noise sensitive use.

  Project construction CNEL noise calculations assume construction activities will occur between the hours of 7:00 AM and 9:00 PM. The existing measured CNEL in the vicinity of the proposed project is 73. A ten decibel increase would be 83 CNEL. Assuming that the loudest hour construction hour unmitigated (80 dBA Leq) at the closest sensitive receptor (shown on Figure 5), was continued between the hours of 7:00 AM and 9:00 PM, the resulting CNEL (utilizing measured noise data for the other hours) would be 79 at the closest sensitive receptor. Project construction is not expected to result in a ten decibel increase over the existing CNEL at any sensitive receptors.

- Construction activities lasting more than 10 days in a three month period would exceed existing ambient exterior noise levels by 5 dBA or more at a noise sensitive use.

  As stated above, the existing measured CNEL in the vicinity of the proposed project is 73. A five decibel increase would be 78 CNEL. The worst-case unmitigated construction noise level would be 79 CNEL, six dB over the existing ambient noise levels.

As shown on Figure 6, if the equipment is equipped with mufflers that provide at least 5 dB in reduction, the worst-case construction scenario is expected to reach 76 CNEL and not result in a 5 dB increase in ambient noise levels.

Measures to minimize construction noise impacts are presented in Section VII of this report.

- Construction activities would exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 PM and 7:00 AM Monday through Friday, before 8:00 AM or after 6:00 PM on Saturday, or at any time on Sunday.

  Construction is anticipated to occur during the permissible hours according the City's Municipal Code and is not expected to exceed the ambient noise level by 5 dB between the hours of 9:00 PM and 7:00 AM on Monday through Friday, before 8:00 AM or after 6:00 PM on Saturday, or at any time on Sunday.

NOISE IMPACTS TO OFF-SITE RECEPTORS DUE TO PROJECT GENERATED TRAFFIC

Impact Analysis/Modeling Results

Existing and project generated traffic noise levels were modeled utilizing the FHWA Traffic Noise Prediction Model - FHWA-RD-77-108 at the right of way of each analyzed roadway. The FHWA worksheets are included in Appendix E. The modeling is theoretical and does not take into account any existing barriers, structures, and/or topographical features that may further reduce noise levels. Therefore, the levels are shown for comparative purposes only to show the difference in with and without project conditions. Roadway input parameters including average daily traffic volumes (ADTs), speeds, and vehicle distribution data are shown in Table 7. The potential off-site noise impacts caused by an increase of traffic volumes from operation of the proposed project on the nearby roadways were calculated for the following scenarios:

Existing Year (Without Project): This scenario refers to existing year traffic noise conditions and is demonstrated in Table 8.

Existing Year (With Project): This scenario refers to existing year plus project traffic noise conditions and is demonstrated in Table 8.

Future Year (Without Project): This scenario refers to future year traffic noise conditions and is demonstrated in Table 8.

Future Year (With Project): This scenario refers to future year plus project traffic noise conditions and is demonstrated in Table 8.

As shown in Table 8, the modeled Existing traffic noise levels range from 69.13 to 69.45 dBA CNEL and the modeled Existing Plus Project traffic noise levels range from 69.16 to 69.48 dBA CNEL at the right of way of each modeled road segment. The modeled Future Without Project traffic noise levels range from 69.22 to 69.53 dBA CNEL and the modeled Future With Project traffic noise levels range from 69.25 to 69.56 dBA CNEL at the right of way of each modeled road segment.

City of Los Angeles CEQA Threshold

- A project would normally have a significant impact on noise levels from operations if the ambient noise level measured at the property line of affected uses were to increase by 3 dBA in CNEL to within the "normally unacceptable" or clearly unacceptable" category (as shown in Table 5), or any 5 dBA or greater noise increase.

As shown in Table 8, the addition of the project generated vehicular trips along affected roadway segments will result in nominal increases in ambient noise levels (between 0.02 to 0.03 dB) over the Existing and Future Without Project scenarios and would not exceed the City of Los Angeles CEQA Threshold presented above. No mitigation is required.

City of Los Angeles CEQA Thresholds

- Is the project consistent with Community Noise Exposure Thresholds shown in Table 5?

  As discussed previously, project generated vehicular trips will not be substantial and will not cause in inconsistencies with the Community Noise Exposure Thresholds shown in Table 5 at adjacent and nearby land uses.

TRAFFIC NOISE IMPACTS TO THE PROPOSED PROJECT

The U.S. 101 Freeway is the primary noise source on the project site. As stated previously, a vehicle mix of 96.7% autos, 2.38% medium trucks and 0.92% heavy trucks (http://traffic-counts.dot.ca.gov/) were utilized to model future noise levels associated with the U.S. 101 Freeway.

Vehicle traffic volumes associated with West Temple Street will also contribute consequentially to future traffic noise levels in the project vicinity. The City of Los Angeles General Plan Mobility Plan 2035 identifies West Temple Street as an Avenue II roadway. As the City of Los Angeles and the County of Los Angeles do not provide future buildout roadway capacities, per the County of Riverside Industrial Hygiene Guidelines for Determining and Mitigating Traffic Noise Impacts to Residential Structures and County of Riverside General Plan, Chapter 4, Figure C-3 "Link Volume Capacities/Level of Service for Riverside County Roadways" revised March 2001, future buildout noise levels associated with these roadways were modeled using Average Daily Trip (ADT) Level of Service "C" design capacities (also known as future build-out daily traffic volumes). West Temple Street is expected to accommodate up to 20,700 vehicles per day at the Level of Service C.

As shown on Figure 7, future exterior noise levels at the proposed multi-family attached residential dwelling units located nearest to the U.S. 101 Freeway and West Temple Street are expected to reach up to 70 CNEL. The project proposes outdoor balconies and a third floor podium level courtyard. Per Table 5, the City considers noise levels of up to 70 CNEL as conditionally acceptable for multi-family attached residential dwelling units. Conditionally acceptable noise levels are acceptable with conventional construction, but with closed windows and a fresh air supply systems or air conditioning. Further, if interior noise levels of 45 CNEL are to be achieved hotel window/wall assemblies will need to have an STC rating of at least 28 for all building façades.

City of Los Angeles CEQA Thresholds

- Is the project consistent with Community Noise Exposure Thresholds shown in Table 5?

  Future traffic noise will result in noise levels reaching up to 72 CNEL at the proposed multi-family attached residential dwelling units. Therefore, with incorporation of upgraded construction materials, including windows with an STC rating of at least 30 and the use of air conditioning, future traffic noise will not be substantial and will not cause in inconsistencies with the Community Noise Exposure Thresholds shown in Table 5 at the proposed land uses.

VIBRATION IMPACTS

There are several types of construction equipment that can cause vibration levels high enough to annoy persons in the vicinity and/or result in architectural or structural damage to nearby structures and improvements. For example, a vibratory roller could generate up to 0.21 PPV at a distance of 25 feet; and

operation of a large bulldozer (0.089 PPV) at a distance of 25 feet (two of the most vibratory pieces of construction equipment). Groundborne vibration at sensitive receptors associated with this equipment would drop off as the equipment moves away. For example, as the vibratory roller moves further than 100 feet from the sensitive receptors, the vibration associated with it would drop below 0.0026 PPV. It should be noted that these vibration levels are reference levels and may vary slightly depending upon soil type and specific usage of each piece of equipment.

Annoyance to Persons

The primary effect of perceptible vibration is often a concern. However, secondary effects, such as the rattling of a china cabinet, can also occur, even when vibration levels are well below perception. Any effect (primary perceptible vibration, secondary effects, or a combination of the two) can lead to annoyance. The degree to which a person is annoyed depends on the activity in which they are participating at the time of the disturbance. For example, someone sleeping or reading will be more sensitive than someone who is running on a treadmill. Reoccurring primary and secondary vibration effects often lead people to believe that the vibration is damaging their home, although vibration levels are well below minimum thresholds for damage potential.

As shown in Table 9, vibration is distinctly perceptible at a peak particle velocity (PPV) of 0.25 during transient vibratory events and at 0.04 during continuous/frequent events. Equipment to be utilized for site demolition and construction is considered to be continuous/intermittent equipment. At 5 feet, which is the distance to the closest off-site building, use of a vibratory roller would be expected to generate a PPV of 0.85 and a bulldozer would be expected to generate a PPV of 0.36. Use of either a vibratory roller or a bulldozer would clearly be highly annoying to nearby sensitive receptors. Annoyance is expected to be short-term, occurring only during site grading and preparation. Mitigation measures to reduce potential impacts related to annoyance are presented in Section VII of this report.

Architectural Damage

Vibration generated by construction activity generally has the potential to damage structures. This damage could be structural damage, such as cracking of floor slabs, foundations, columns, beams, or wells, or cosmetic architectural damage, such as cracked plaster, stucco, or tile.

Table 9 identifies the building damage threshold for historic structures as 0.25 for continuous/frequent sources. Use of vibratory roller equipment within 22 feet and bulldozer equipment within 10 feet of a historic structure could result in architectural damage. Mitigation measures to reduce potential impacts to residential dwelling units are presented in Section VII of this report.

Table 6
Typical Construction Equipment Noise Levels[1]

Type of Equipment	Range of Maximum Sound Levels Measured (dBA at 50 feet)	Suggested Maximum Sound Levels for Analysis (dBA at 50 feet)
Rock Drills	83-99	96
Jack Hammers	75-85	82
Pneumatic Tools	78-88	85
Pumps	74-84	80
Dozers	77-90	85
Scrappers	83-91	87
Haul Trucks	83-94	88
Cranes	79-86	82
Portable Generators	71-87	80
Rollers	75-82	80
Tractors	77-82	80
Front-End Loaders	77-90	86
Hydraulic Excavators	81-90	86
Graders	79-89	86
Air Compressors	76-89	86
Concrete Saw	90	90
Trucks	81-87	86

Notes:
(1) Source: Bolt, Beranek & Newman; Noise Control for Buildings and Manufacturing Plants, 1987. Federal Highway Administration; Construction Noise Handbook. August.

Table 7
Project Average Daily Traffic Volumes and Roadway Parameters

Roadway	Segment	Average Daily Traffic Volume[1,2]				Posted Travel Speeds (MPH)	Site Conditions
		Existing	Existing With Project	Future Without Project	Future With Project		
West Temple Street	West of Edgeware Road	14,400	14,500	14,700	14,800	35	Hard
	Edgeware Road to Firmin Street	15,400	15,500	15,700	15,800	35	Hard
	Firmin Street to Beaudry Avenue	15,500	15,600	15,800	15,900	35	Hard

Vehicle Distribution (Heavy Mix)[2]			
Motor-Vehicle Type	Daytime % (7 AM - 7 PM)	Evening % (7 PM - 10 PM)	Night % (10 PM - 7 AM)
Automobiles	75.5	14.0	10.4
Medium Trucks	48.0	2.0	50.0
Heavy Trucks	48.0	2.0	50.0

Vehicle Distribution (Light Mix)[2]			
Motor-Vehicle Type	Daytime % (7 AM - 7 PM)	Evening % (7 PM - 10 PM)	Night % (10 PM - 7 AM)
Automobiles	75.6	14.0	10.5
Medium Trucks	48.9	2.2	48.9
Heavy Trucks	47.3	5.4	47.3

Notes:

(1) Existing, future, and project scenario traffic volumes obtained from the Traffic Technical Memorandum - Firmin Court Residential Project (June, 28 2018) were used to calculate average daily trips.

(2) Vehicle percentages are based on the Riverside County Industrial Hygiene Letter for Traffic Noise.

Table 8

Change in Existing Noise Levels Along Roadways as a Result of Project (dBA CNEL)[1]

Roadway	Segment	Distance from roadway centerline to right-of-way[2]	Modeled Noise Levels (dBA CNEL)						
			Existing Without Project	Existing Plus Project	Change in Noise Level	Future Without Project	Future With Project	Change in Noise Level	Potential Significant Impact
West Temple Street	West of Edgeware Road	43	69.13	69.16	0.03	69.22	69.25	0.03	No
	Edgeware Road to Firmin Street	43	69.42	69.45	0.03	69.51	69.53	0.02	No
	Firmin Street to Beaudry Avenue	43	69.45	69.48	0.03	69.53	69.56	0.03	No

Notes:

(1) Exterior noise levels calculated 5-feet above pad elevation, perpendicular to subject roadway.

(2) Distance from the roadway centerline to the roadway right-of-way. Right-of-way distances were estimated based on the Street Designations and Standard Roadway Dimensions provided in the City of Los Angeles General Plan Mobility Plan 2035 (September 2016).

Table 9

Summary of Construction Equipment Vibration Levels and Effects on Humans and Buildings[1]

Effects	Peak Particle Velocity (in/sec)	
	Transient Sources[2]	Continuous/Frequent Intermittent Sources[3]
Potentially Damaged Structure Type		
Extremely fragile historic buildings, ruins, ancient monuments	0.12	0.08
Fragile buildings	0.20	0.10
Historic and some old buildings	0.50	0.25
Older residential structures	0.50	0.30
New residential structures	1.00	0.50
Modern industrial/commercial buildings	2.00	0.50
Human Response		
Barely perceptible	0.04	0.01
Distinctly perceptible	0.25	0.04
Strongly perceptible	0.90	0.10
Severe	2.00	0.40

Notes:

(1) Source: California Department of Transportation, 2004.

(2) Transient sources create a single isolated vibration event, such as blasting and drop balls.

(3) Continuous/frequent intermittent sources include impact pile drivers, vibratory pile drivers, and vibratory compaction equipment.



Figure 5

Project Construction
Noise Levels - No Mitigation
(Leq)

Equipment Noise Levels at 50 Feet (Leq)

Concrete Saw - 82.6 dBA (20% usage)
Dozer - 77.7 dBA (40% usage)
Tractor - 80 dBA (40% usage)
Front End Loader (40% usage)

Signs and symbols

- Project Site
- Receiver
- Construction Equipment
- Noise Levels (Leq)

1 : 75

0 20 40 80 120 160 feet



Figure 6

Project Construction
Noise Levels With Mufflers
(Leq)

These results assume that mufflers that acheive at least 8 dB in reduction will be installed on the construction equipment to result in the following noise levels at 50 feet (Leq).

Concrete Saw - 78 dBA (20% usage)
Dozer - 73 dBA (40% usage)
Tractor - 75 dBA (40% usage)
Front End Loader 70 dBA (40% usage)

Additional noise reduction for the concrete saw can be achieved by shrouding it on all sides with 1/2 inch plywood or acoustical blankets with no holes or cracks from the ground to a height of six feet. Because the construction equipment will be utilized at different locations for different periods of time, noise levels will vary.

Signs and symbols

- Project Site
- Receiver
- Construction Equipment
- Noise Levels (Leq)

1 : 75

0 20 40 80 120 160 feet



Figure 7

Future Traffic Noise Levels
CNEL

Signs and symbols

- Property Boundary
- Receiver at building
- Roadways
- Noise Levels 1st-7th Floor

1 : 75

0 20 40 80 120 160 feet

7. MEASURES TO REDUCE IMPACTS

CONSTRUCTION NOISE MEASURES

In addition to adherence to the City of Los Angeles' policies found in the Noise Element and Municipal Code limiting the construction hours of operation, the following measures are recommended to reduce construction noise and vibrations emanating from the proposed project:

7. During all project site excavation and grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards.

8. The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the project site.

9. Equipment shall be shut off and not left to idle when not in use.

10. The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the project site during all project construction.

11. Pile drivers shall not be utilized on the project site.

12. Vibrator rollers and/or any other equivalent vibratory equipment shall not be utilized within 22 feet and bulldozers within 10 feet of existing structures to remain. A backhoe may be utilized for demolition and soil compaction within 22 feet of the existing structures.

8. REFERENCES

Bolt, Beranek & Newman

1987 Noise Control for Buildings and Manufacturing Plants.

California Department of Transportation

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U.S. Department of Transportation.

2006 FHWA Roadway Construction Noise Model User's Guide. January.

APPENDICES

Appendix A List of Acronyms

Appendix B Definitions of Acoustical Terms

Appendix C Noise Measurement Field Worksheets

Appendix D RCNM and SoundPlan Construction Noise Modeling Data

Appendix E Project Generated Traffic FHWA Worksheets

Appendix F SoundPLAN Inputs and Outputs for Traffic Noise Impacts to the Project

APPENDIX A

LIST OF ACRONYMS

Term	Definition
ADT	Average Daily Traffic
ANSI	American National Standard Institute
CEQA	California Environmental Quality Act
CNEL	Community Noise Equivalent Level
D/E/N	Day / Evening / Night
dB	Decibel
dBA or dB(A)	Decibel "A-Weighted"
dBA/DD	Decibel per Double Distance
dBA L_{eq}	Average Noise Level over a Period of Time
EPA	Environmental Protection Agency
FHWA	Federal Highway Administration
L_{02},L_{08},L_{50},L_{90}	A-weighted Noise Levels at 2 percent, 8 percent, 50 percent, and 90 percent, respectively, of the time period
DNL	Day-Night Average Noise Level
$L_{eq(x)}$	Equivalent Noise Level for '"x" period of time
L_{eq}	Equivalent Noise Level
L_{max}	Maximum Level of Noise (measured using a sound level meter)
L_{min}	Minimum Level of Noise (measured using a sound level meter)
LOS C	Level of Service C
OPR	California Governor's Office of Planning and Research
PPV	Peak Particle Velocities
RCNM	Road Construction Noise Model
REMEL	Reference Energy Mean Emission Level
RMS	Root Mean Square

APPENDIX B

DEFINITIONS OF ACOUSTICAL TERMS

Term	Definition
Ambient Noise Level	The all-encompassing noise environment associated with a given environment, at a specified time, usually a composite of sound from many sources, at many directions, near and far, in which usually no particular sound is dominant.
A-Weighted Sound Level, dBA	The sound level obtained by use of A-weighting. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear.
CNEL	Community Noise Equivalent Level. CNEL is a weighted 24-hour noise level that is obtained by adding five decibels to sound levels in the evening (7:00 PM to 10:00 PM), and by adding ten decibels to sound levels at night (10:00 PM to 7:00 AM). This weighting accounts for the increased human sensitivity to noise during the evening and nighttime hours.
Decibel, dB	A logarithmic unit of noise level measurement that relates the energy of a noise source to that of a constant reference level; the number of decibels is 10 times the logarithm (to the base 10) of this ratio.
DNL, Ldn	Day Night Level. The DNL, or Ldn is a weighted 24-hour noise level that is obtained by adding ten decibels to sound levels at night (10:00 PM to 7:00 AM). This weighting accounts for the increased human sensitivity to noise during the nighttime hours.
Equivalent Continuous Noise Level, L_{eq}	A level of steady state sound that in a stated time period, and a stated location, has the same A-weighted sound energy as the time-varying sound.
Fast/Slow Meter Response	The fast and slow meter responses are different settings on a sound level meter. The fast response setting takes a measurement every 100 milliseconds, while a slow setting takes one every second.
Frequency, Hertz	In a function periodic in time, the number of times that the quantity repeats itself in one second (i.e., the number of cycles per second).
L_{02}, L_{08}, L_{50}, L_{90}	The A-weighted noise levels that are equaled or exceeded by a fluctuating sound level, 2 percent, 8 percent, 50 percent, and 90 percent of a stated time period, respectively.
L_{max}, L_{min}	L_{max} is the RMS (root mean squared) maximum level of a noise source or environment measured on a sound level meter, during a designated time interval, using fast meter response. L_{min} is the minimum level.
Offensive/ Offending/ Intrusive Noise	The noise that intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of sound depends on its amplitude, duration, frequency, and time of occurrence, and tonal information content as well as the prevailing ambient noise level.
Root Mean Square (RMS)	A measure of the magnitude of a varying noise source quantity. The name derives from the calculation of the square root of the mean of the squares of the values. It can be calculated from either a series of lone values or a continuous varying function.

APPENDIX C

NOISE MEASUREMENT FIELD WORKSHEETS

Noise Measurement
Field Data

Project Name: Firmin Court **Date:** May 17, 2018

Project #: 7427

Noise Measurement #: STNM1 **Technician:** Ian Gallagher

Nearest Address or Cross Street: Firmin Street & West Temple Street

Site Description (Type of Existing Land Use and any other notable features): Project site: residential, open lots. Adjacent: residential/commercial,

Firmin Street to the West, Boylston Street to the East, West Temple Street to the North, 101 Freeway 150 yards North of Site. Housing construction to the South.

Weather: Small white clouds, 80% blue sky, sunny **Settings:** SLOW FAST

Temperature: 72 deg F **Wind:** 5 to 7 mph **Humidity:** 48% **Terrain:** Some gradient, hilly.

Start Time: 2:07 PM **End Time:** 2:17 PM **Run Time:** 10 MIN

Leq: 66.3 dB **Primary Noise Source:** Vehicle noise associated with Freeway 101, 115 yards NE of STNM1

Lmax 82.3 dB Traffic noise from West Temple St and Firmin St and other surrounding roads.

L2 71.9 dB **Secondary Noise Sources:** LAX airport 12 miles SE of Site, constant commercial aircraft noise > 5,000ft altitude.

L8 69.4 dB Bird Song, pedestrians on sidewalk, mostly school children, some adults.

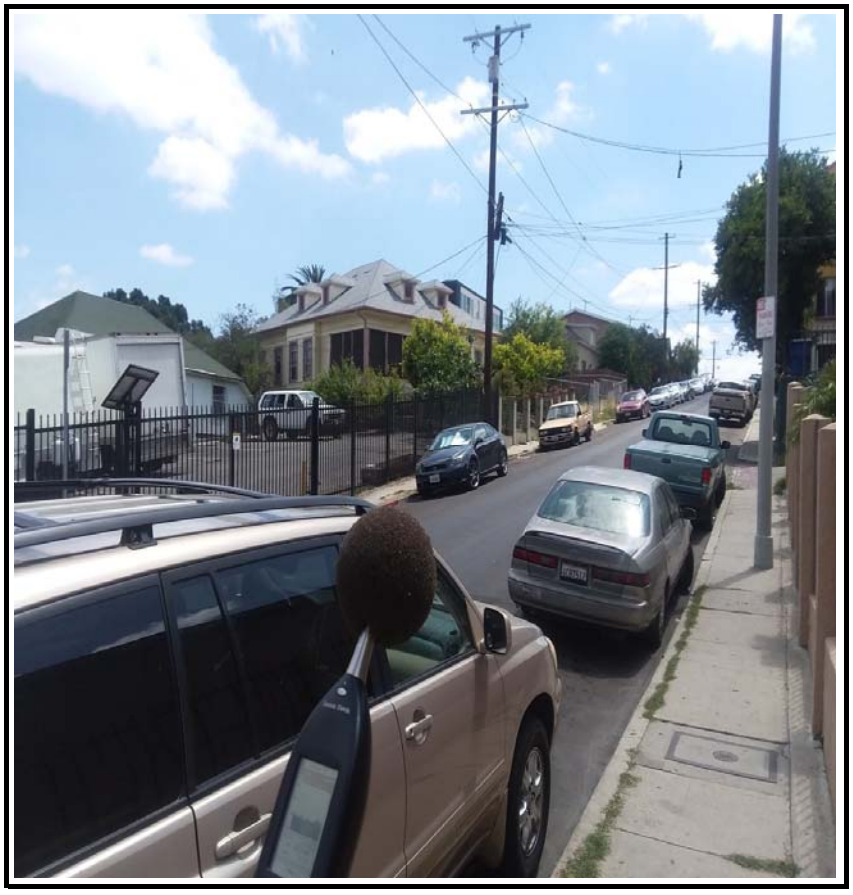
L25 66.7 dB

L50 63.8 dB

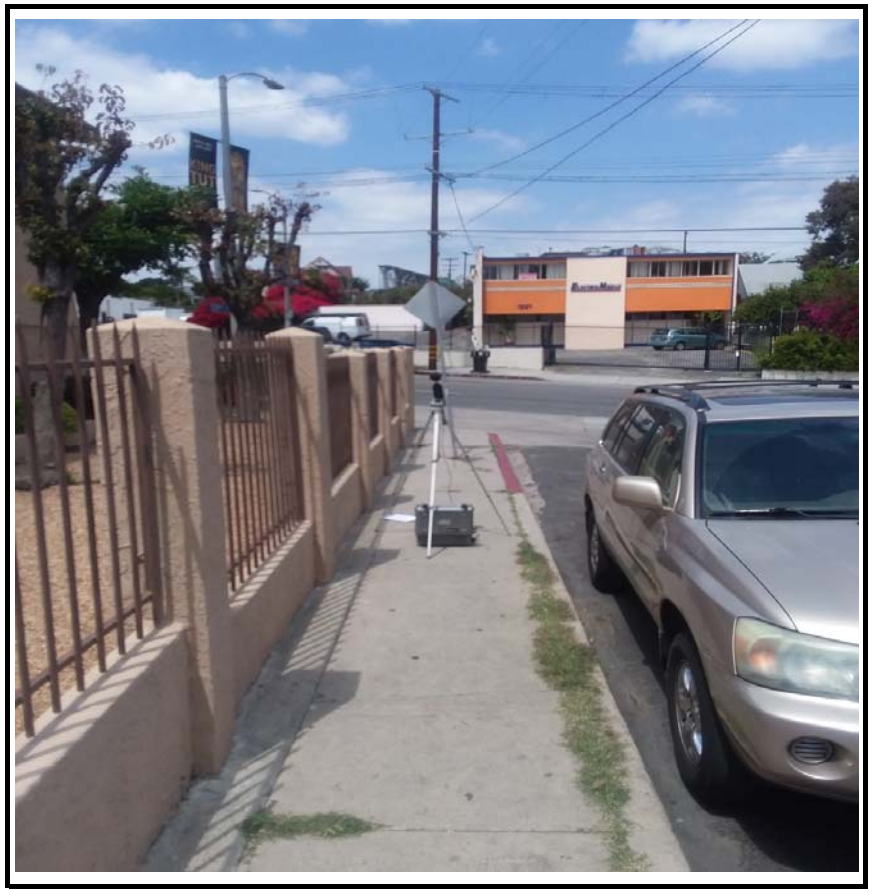
NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	6/23/2017	**FACTORY CALIBRATION DATE:**	6/9/2017
FIELD CALIBRATION DATE:	5/17/2018		

Noise Measurement
Field Data

PHOTOS:



STNM1 JN7427 looking SW up Firmin Street.



STNM1 JN7427 looking NE down Firmin Street towards W Temple St.

Summary	
File Name on Meter	LxT_Data.036
File Name on PC	SLM_0003099_LxT_Data_036.01.ldbin
Serial Number	0003099
Model	SoundTrack LxT®
Firmware Version	2.301
User	Ian Edward Gallagher
Location	STNM1 JN7427
Job Description	10 minute noise measurement

Measurement	
Start	2018-05-17 14:07:55
Stop	2018-05-17 14:17:55
Duration	00:10:00.0
Run Time	00:10:00.0
Pause	00:00:00.0
Pre Calibration	2018-05-17 14:07:34
Post Calibration	None
Calibration Deviation	---

Overall Settings	
RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1L
Microphone Correction	Off
Integration Method	Linear
OBA Range	Low
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	Z Weighting
OBA Max Spectrum	Bin Max
Overload	122.7 dB

Results			
LA_{eq}	66.3 dB		
LAE	94.1 dB		
EA	284.621 µPa²h		
EA8	13.662 mPa²h		
EA40	68.309 mPa²h		
$LZ_{peak\ (max)}$	2018-05-17 14:15:52	103.5 dB	
LAS_{max}	2018-05-17 14:15:53	82.3 dB	
LAS_{min}	2018-05-17 14:17:51	55.6 dB	
SEA	-99.9 dB		

		Statistics	
LC_{eq}	75.8 dB	**LAS2.00**	71.9 dB
LA_{eq}	66.3 dB	**LAS8.00**	69.4 dB
LC_{eq} - LA_{eq}	9.5 dB	**LAS25.00**	66.7 dB
LAI_{eq}	67.6 dB	**LAS50.00**	63.8 dB
LA_{eq}	66.3 dB	**LAS66.60**	61.4 dB
LAI_{eq} - LA_{eq}	1.3 dB	**LAS90.00**	58.6 dB
# Overloads	0		

Noise Measurement
Field Data

Project Name: Firmin Court **Date:** May 17, 2018

Project #: 7427

Noise Measurement #: STNM2 **Technician:** Ian Gallagher

Nearest Address or Cross Street: North Boylston Street & West Temple Street

Site Description (Type of Existing Land Use and any other notable features): Project site: residential, open lots. Adjacent: residential/commercial,

Firmin Street to the West, Boylston Street to the East, West Temple Street to the North, 101 Freeway 150 yards North of Site. Housing construction to the South.

Weather: Small white clouds, 80% blue sky, sunny. **Settings:** SLOW FAST

Temperature: 72 deg F **Wind:** 5 to 7 mph **Humidity:** 48% **Terrain:** Some gradient, hilly.

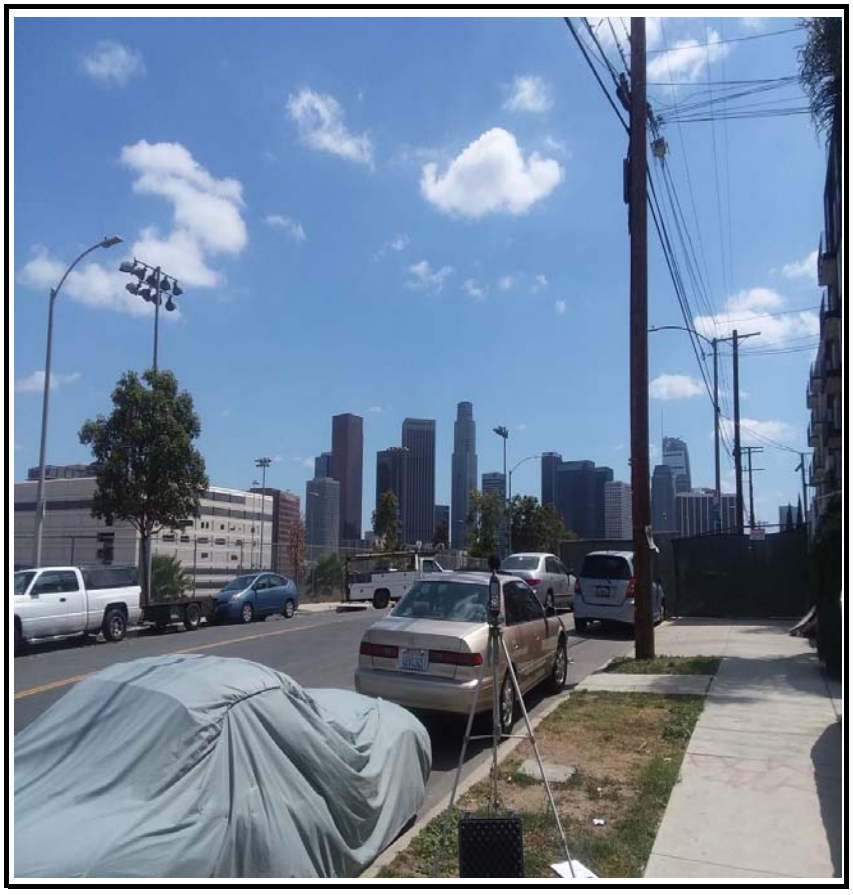
Start Time: 2:30 PM **End Time:** 2:40 PM **Run Time:** 10 MIN

Leq:	63.2	dB	**Primary Noise Source:** Vehicle noise associated with Freeway 101, 170 yards NE of STNM2
Lmax	70.9	dB	Traffic noise from West Temple Street, Boylston Street and other surrounding roads.
L2	66.0	dB	**Secondary Noise Sources:** LAX airport 12 miles SE of Site, constant commercial aircraft noise > 5,000ft altitude.
L8	65.2	dB	Bird Song, pedestrians on sidewalk, construction site immediately SW of STNM2.
L25	64.0	dB	
L50	62.8	dB	

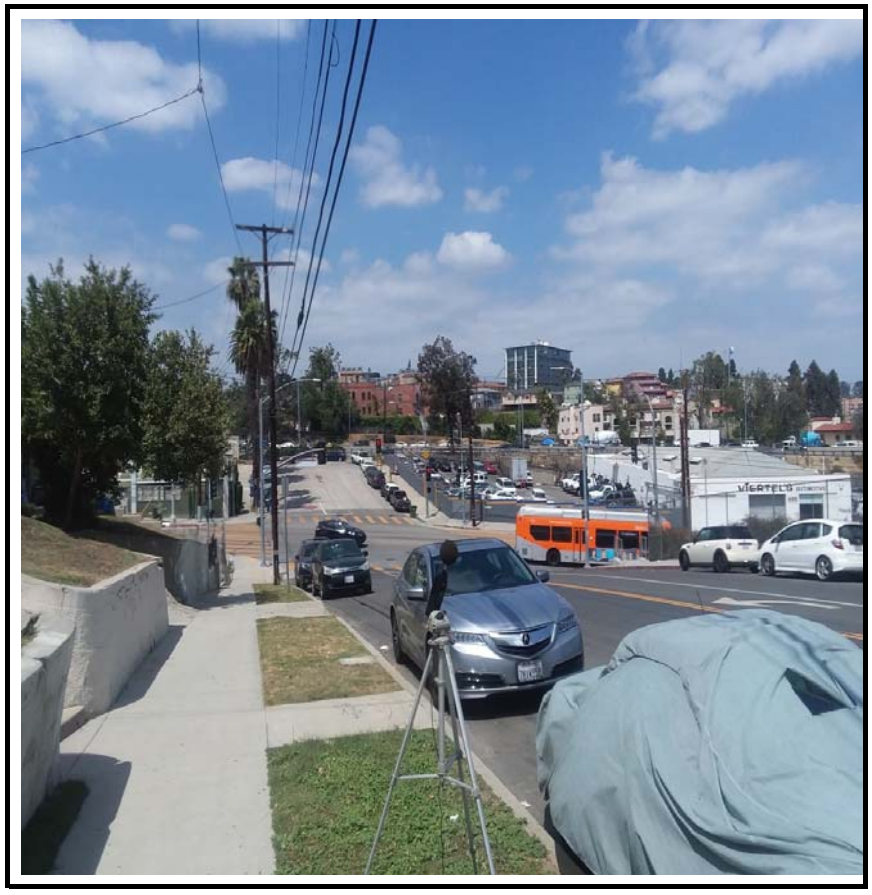
NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	6/23/2017	**FACTORY CALIBRATION DATE:**	6/9/2017
FIELD CALIBRATION DATE:	5/17/2018		

Noise Measurement
Field Data

PHOTOS:



STNM2 JN7427 looking SW up Boylston St towards LA skyline.



STNM2 JN7427 looking NE down Boylston St towards W Temple St.

Summary	
File Name on Meter	LxT_Data.037
File Name on PC	SLM_0003099_LxT_Data_037.01.ldbin
Serial Number	0003099
Model	SoundTrack LxT®
Firmware Version	2.301
User	Ian Edward Gallagher
Location	STNM2 JN7427
Job Description	10 minute noise measuremnt

Measurement	
Start	2018-05-17 14:30:33
Stop	2018-05-17 14:40:33
Duration	00:10:00.0
Run Time	00:10:00.0
Pause	00:00:00.0
Pre Calibration	2018-05-17 14:30:02
Post Calibration	None
Calibration Deviation	---

Overall Settings	
RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1L
Microphone Correction	Off
Integration Method	Linear
OBA Range	Low
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	Z Weighting
OBA Max Spectrum	Bin Max
Overload	122.9 dB

Results			
LA_{eq}	63.2 dB		
LAE	91.0 dB		
EA	138.927 µPa²h		
EA8	6.668 mPa²h		
EA40	33.342 mPa²h		
$LZ_{peak\ (max)}$	2018-05-17 14:31:37	105.3 dB	
LAS_{max}	2018-05-17 14:40:30	70.9 dB	
LAS_{min}	2018-05-17 14:31:49	58.6 dB	
SEA	-99.9 dB		

		Statistics	
$LCeq$	72.9 dB	**LAS2.00**	66.0 dB
LA_{eq}	63.2 dB	**LAS8.00**	65.2 dB
$LCeq - LA_{eq}$	9.7 dB	**LAS25.00**	64.0 dB
LAI_{eq}	64.0 dB	**LAS50.00**	62.8 dB
LA_{eq}	63.2 dB	**LAS66.60**	62.1 dB
$LAI_{eq} - LA_{eq}$	0.8 dB	**LAS90.00**	61.0 dB
# Overloads	0		

Noise Measurement
Field Data

Project Name: Firmin Court **Date:** 17 to 18 May 2018

Project #: 7427

Noise Measurement #: LTNM1 **Technician:** Ian Gallagher

Nearest Address or Cross Street: North Boylston Street & West Temple Street.

Site Description (Type of Existing Land Use and any other notable features): Project site: residential, open lots. Adjacent: residential/commercial,

Firmin Street to the West, Boylston Street to the East, West Temple Street to the North, 101 Freeway 150 yards North of Site. Housing construction to the South.

Weather: Small white clouds, 80% clear sky, cloudiness increasing. **Settings:** SLOW FAST

Temperature: 72 to 59 deg F **Wind:** 0 to 7 mph **Humidity:** 50 to 75% **Terrain:** Some gradient, hilly.

Start Time: 4:00 PM **End Time:** 4:00 PM **Run Time:** 24 Hours (24 x 1 hour)

Leq: 67.3 dB **Primary Noise Source:** Vehicle noise associated with Interstate Freeway 101, 125 yards NE of LTNM1.

Lmax 96.5 dB Traffic noise from West Temple St, Boylston St and other surrounding roads.

L2 71.5 dB **Secondary Noise Sources:** LAX airport 12 miles SE of Site, constant commercial aircraft noise > 5,000ft altitude.

L8 69.6 dB Bird Song, pedestrians on sidewalks, construction site SW of LTNM1.

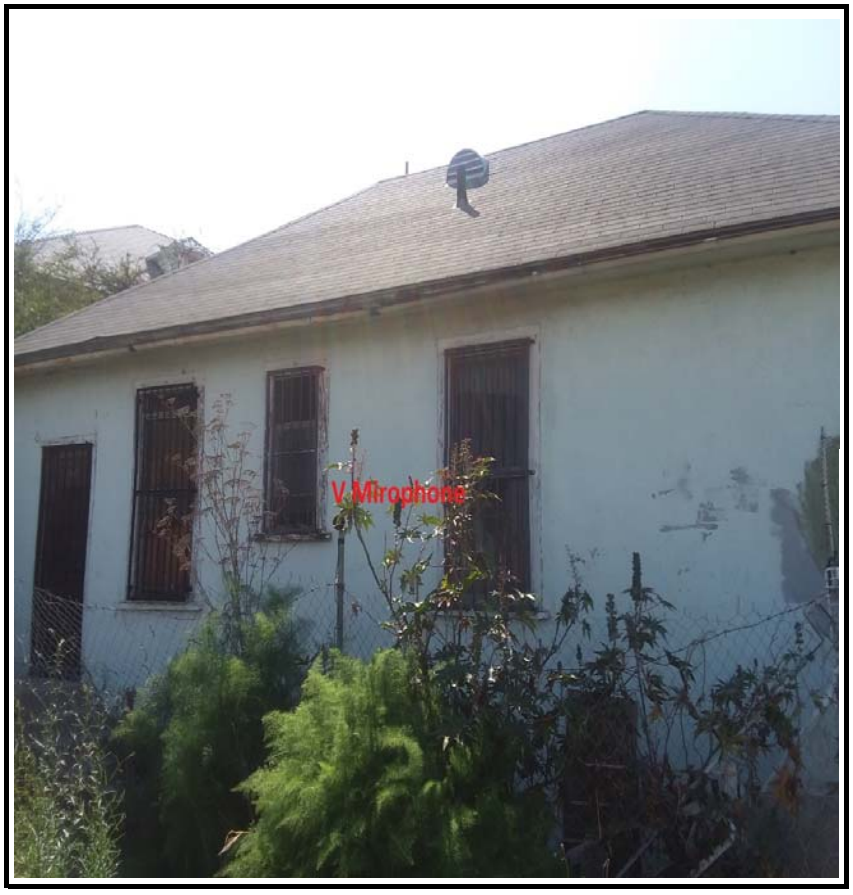
L25 67.8 dB

L50 66.0 dB

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	6/23/2017	**FACTORY CALIBRATION DATE:**	6/9/2017
FIELD CALIBRATION DATE:	5/17/2018		

Noise Measurement
Field Data

PHOTOS:



LTNM1 JN7427 looking West towards residence.



LTNM1 JN7427 looking East towards W Temple St & Boylston Street.

Summary	
File Name on Meter	LxT_Data.038
File Name on PC	SLM_0003099_LxT_Data_038.01.ldbin
Serial Number	0003099
Model	SoundTrack LxT®
Firmware Version	2.301
User	Ian Edward Gallagher
Location	LTNM1 JN7427
Job Description	24 hour noise measurement

Measurement	
Start	2018-05-17 16:00:00
Stop	2018-05-18 16:00:00
Duration	24:00:00.0
Run Time	24:00:00.0
Pause	00:00:00.0
Pre Calibration	2018-05-17 15:03:15
Post Calibration	None
Calibration Deviation	---

Overall Settings	
RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamp	Direct
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	Bin Max
Overload	122.5 dB

Results			
LA_{eq}	67.3 dB		
LAE	116.6 dB		
EA	50.992 mPa²h		
EA8	16.997 mPa²h		
EA40	84.987 mPa²h		
$LA_{peak\ (max)}$	2018-05-18 04:40:58	107.6 dB	
LAS_{max}	2018-05-18 04:40:59	96.5 dB	
LAS_{min}	2018-05-17 17:26:07	52.0 dB	
SEA	-99.9 dB		

		Statistics	
LC_{eq}	72.8 dB	**LAS2.00**	71.5 dB
LA_{eq}	67.3 dB	**LAS8.00**	69.6 dB
LC_{eq} - LA_{eq}	5.5 dB	**LAS25.00**	67.8 dB
LAI_{eq}	68.7 dB	**LAS50.00**	66.0 dB
LA_{eq}	67.3 dB	**LAS90.00**	61.7 dB
LAI_{eq} - LA_{eq}	1.4 dB	**LAS99.00**	57.5 dB
# Overloads	0		

Record #	Date	Time	Run Duration	Run Time	Pause	LAeq	LASmin	LASmax	LAS2.00	LAS8.00	LAS25.00	LAS50.00	LAS90.00	LAS99.00
1	2018-05-17	16:00:00	01:00:00.0	01:00:00.0	00:00:00.0	67.7	52.6	91.2	71.4	69.2	67.2	65.0	58.7	55.2
2	2018-05-17	17:00:00	01:00:00.0	01:00:00.0	00:00:00.0	66.3	52.0	90.0	70.4	69.0	67.0	64.8	58.2	54.6
3	2018-05-17	18:00:00	01:00:00.0	01:00:00.0	00:00:00.0	66.1	55.3	74.6	70.3	68.9	67.5	65.4	60.7	58.8
4	2018-05-17	19:00:00	01:00:00.0	01:00:00.0	00:00:00.0	65.6	57.5	75.9	70.2	68.4	66.6	64.8	61.2	59.2
5	2018-05-17	20:00:00	01:00:00.0	01:00:00.0	00:00:00.0	65.5	59.2	81.3	69.5	67.5	66.0	64.5	61.5	60.1
6	2018-05-17	21:00:00	01:00:00.0	01:00:00.0	00:00:00.0	64.8	58.0	76.1	68.5	67.3	65.7	64.2	61.6	59.6
7	2018-05-17	22:00:00	01:00:00.0	01:00:00.0	00:00:00.0	68.5	61.4	91.3	71.5	69.3	68.2	67.2	64.6	62.3
8	2018-05-17	23:00:00	01:00:00.0	01:00:00.0	00:00:00.0	68.6	61.1	89.5	71.6	69.9	68.5	67.3	64.4	62.2
9	2018-05-18	00:00:00	01:00:00.0	01:00:00.0	00:00:00.0	67.0	61.5	71.7	69.8	68.8	67.8	66.8	64.8	63.1
10	2018-05-18	01:00:00	01:00:00.0	01:00:00.0	00:00:00.0	66.1	60.0	75.4	69.4	68.1	66.8	65.6	63.5	61.5
11	2018-05-18	02:00:00	01:00:00.0	01:00:00.0	00:00:00.0	63.9	53.7	77.6	69.0	66.5	64.5	62.8	59.4	56.6
12	2018-05-18	03:00:00	01:00:00.0	01:00:00.0	00:00:00.0	64.5	55.1	80.3	69.1	66.5	64.7	63.3	60.5	57.8
13	2018-05-18	04:00:00	01:00:00.0	01:00:00.0	00:00:00.0	68.7	57.5	96.5	68.4	66.4	65.1	63.7	61.2	59.2
14	2018-05-18	05:00:00	01:00:00.0	01:00:00.0	00:00:00.0	67.0	56.9	76.6	70.6	69.3	68.0	66.7	62.7	59.8
15	2018-05-18	06:00:00	01:00:00.0	01:00:00.0	00:00:00.0	67.4	61.6	74.5	70.8	69.5	68.2	67.0	64.5	62.9
16	2018-05-18	07:00:00	01:00:00.0	01:00:00.0	00:00:00.0	68.8	63.3	76.5	72.7	71.1	69.7	68.3	65.9	64.3
17	2018-05-18	08:00:00	01:00:00.0	01:00:00.0	00:00:00.0	68.2	61.1	79.0	72.5	70.9	69.2	67.5	64.3	62.0
18	2018-05-18	09:00:00	01:00:00.0	01:00:00.0	00:00:00.0	68.8	61.7	87.3	73.5	70.9	69.1	67.5	64.7	62.9
19	2018-05-18	10:00:00	01:00:00.0	01:00:00.0	00:00:00.0	68.4	61.8	80.3	72.7	70.6	69.1	67.6	65.1	63.4
20	2018-05-18	11:00:00	01:00:00.0	01:00:00.0	00:00:00.0	67.8	57.4	88.4	72.7	69.7	67.7	65.7	62.1	59.0
21	2018-05-18	12:00:00	01:00:00.0	01:00:00.0	00:00:00.0	67.4	59.6	85.5	72.4	70.0	68.2	66.4	63.0	60.8
22	2018-05-18	13:00:00	01:00:00.0	01:00:00.0	00:00:00.0	68.9	56.5	91.7	73.0	70.5	68.7	67.0	63.0	58.9
23	2018-05-18	14:00:00	01:00:00.0	01:00:00.0	00:00:00.0	66.2	53.9	79.8	71.4	69.2	67.3	65.4	59.2	55.7
24	2018-05-18	15:00:00	01:00:00.0	01:00:00.0	00:00:00.0	66.5	53.0	79.5	71.4	69.6	67.7	65.7	59.6	56.1

APPENDIX D

RCNM AND SOUNDPLAN CONSTRUCTION NOISE MODELING DATA

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2018
Case Description: Fermin Court

				---- Receptor #1 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residential	Residential	68.9	68.9	63.9

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	50	0
Dozer	No	40		81.7	50	0
Tractor	No	40	84		50	0
Front End Loader	No	40		79.1	50	0

		Calculated (dBA)	Results
Equipment		*Lmax	Leq
Concrete Saw		89.6	82.6
Dozer		81.7	77.7
Tractor		84	80
Front End Loader		79.1	75.1
	Total	89.6	85.7

*Calculated Lmax is the Loudest value.

Noise Emissions of Industry Sources

Source name	Reference	Level Leq1 dB(A)	Corrections Kwall dB(A)	Corrections CI dB(A)	Corrections CT dB(A)
concrete saw	Unit	114.2	-	-	-
Dozer	Unit	109.3	-	-	-
Tractor	Unit	111.6	-	-	-
Front End Loader	Unit	106.7	-	-	-

Contribution Levels of the Receivers

Source name		Level Leq1 dB(A)
1	Fl	79.5
concrete saw		76.6
Dozer		74.4
Front End Loader		66.8
Tractor		70.5
2	Fl	77.3
concrete saw		74.4
Dozer		70.0
Front End Loader		66.2
Tractor		70.5
3	Fl	76.4
concrete saw		72.9
Dozer		67.1
Front End Loader		66.3
Tractor		71.8
4	Fl	79.8
concrete saw		75.0
Dozer		68.4
Front End Loader		70.0
Tractor		76.8
5	Fl	78.0
concrete saw		74.7
Dozer		69.0
Front End Loader		67.9
Tractor		73.0
6	Fl	77.5
concrete saw		74.8
Dozer		70.4
Front End Loader		66.4
Tractor		70.6
7	Fl	79.9
concrete saw		77.0
Dozer		74.7
Front End Loader		67.2
Tractor		70.8

Receiver List

No.	Receiver name	Building side	Floor	Limit Leq1 dB(A)	Level Leq1 dB(A)	Conflict Leq1 dB(A)
1	1		Fl	-	79.5	-
2	2		Fl	-	77.3	-
3	3		Fl	-	76.4	-
4	4		Fl	-	79.8	-
5	5		Fl	-	78.0	-
6	6		Fl	-	77.5	-
7	7		Fl	-	79.9	-

Noise Emissions of Industry Sources

Source name	Reference	Level Leq1 dB(A)	Corrections Kwall dB(A)	Corrections CI dB(A)	Corrections CT dB(A)
Concrete Saw	Unit	109.2	-	-	-
Dozer	Unit	104.3	-	-	-
Tractor	Unit	106.6	-	-	-
Front End Loader	Unit	101.7	-	-	-

Contribution Levels of the Receivers

Source name		Level Leq1 dB(A)
1	Fl	74.5
Concrete Saw		71.6
Dozer		69.4
Front End Loader		61.8
Tractor		65.5
2	Fl	72.3
Concrete Saw		69.4
Dozer		65.0
Front End Loader		61.2
Tractor		65.5
3	Fl	71.4
Concrete Saw		67.9
Dozer		62.1
Front End Loader		61.3
Tractor		66.8
4	Fl	74.8
Concrete Saw		70.0
Dozer		63.4
Front End Loader		65.0
Tractor		71.8
5	Fl	73.0
Concrete Saw		69.7
Dozer		64.0
Front End Loader		62.9
Tractor		68.0
6	Fl	72.5
Concrete Saw		69.8
Dozer		65.4
Front End Loader		61.4
Tractor		65.6
7	Fl	74.9
Concrete Saw		72.0
Dozer		69.7
Front End Loader		62.2
Tractor		65.8

Receiver List

No.	Receiver name	Building side	Floor	Limit Leq1 dB(A)	Level Leq1 dB(A)	Conflict Leq1 dB(A)
1	1		Fl	-	74.5	-
2	2		Fl	-	72.3	-
3	3		Fl	-	71.4	-
4	4		Fl	-	74.8	-
5	5		Fl	-	73.0	-
6	6		Fl	-	72.5	-
7	7		Fl	-	74.9	-

APPENDIX E

PROJECT GENERATED TRAFFIC FHWA WORKSHEETS

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Existing Traffic Noise

Project: **7427 Firmin Court Project**

Road: **West Temple Street**

Segment: **West of Edgeware Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	14400.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	883.15	10.80	4.20	652.66	1.92	1.92	163.48	14.40	5.60	% A	97.4
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	23.71	4.59	0.49	22.40	-2.92	-2.91	16.39	5.84	1.74		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.13
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.42
LEQ	64.41	55.00	56.12	63.10	47.49	52.72	57.08	56.25	57.37	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.42		EVENING LEQ	63.58		NIGHT LEQ	61.70		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.13**								

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Existing Plus Project Traffic Noise

Project: **7427 Firmin Court Project**
Road: **West Temple Street**
Segment: **West of Edgeware Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	14499.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	889.28	10.87	4.23	657.19	1.93	1.93	164.61	14.50	5.64	% A	97.40
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	23.74	4.62	0.52	22.43	-2.89	-2.88	16.42	5.87	1.77		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.16
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.45
LEQ	64.44	55.03	56.15	63.13	47.52	52.75	57.11	56.28	57.40	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.45		EVENING LEQ	63.61		NIGHT LEQ	61.73		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.16**								

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Existing Traffic Noise

Project: **7427 Firmin Court Project**

Road: **West Temple Street**

Segment: **Edgeware Road to Firmin Street**

	DAYTIME			EVENING			NIGHTTIME			ADT	15400.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	944.47	11.55	4.49	697.98	2.05	2.06	174.83	15.40	5.99	% A	97.4
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	24.01	4.88	0.78	22.69	-2.63	-2.62	16.68	6.13	2.03		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.42
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.71
LEQ	64.70	55.29	56.41	63.39	47.78	53.01	57.37	56.54	57.66	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.71		EVENING LEQ	63.88		NIGHT LEQ	61.99		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.42**								

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Existing Plus Project Traffic Noise

Project: **7427 Firmin Court Project**
Road: **West Temple Street**
Segment: **Edgeware Road to Firmin Street**

	DAYTIME			EVENING			NIGHTTIME			ADT	15499.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	950.61	11.62	4.52	702.51	2.06	2.07	175.96	15.50	6.03	% A	97.40
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	24.03	4.91	0.81	22.72	-2.60	-2.59	16.71	6.16	2.06		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.45
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.74
LEQ	64.73	55.32	56.44	63.41	47.81	53.04	57.40	56.57	57.69	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.74		EVENING LEQ	63.90		NIGHT LEQ	62.02		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.45**								

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Existing Traffic Noise

Project: **7427 Firmin Court Project**

Road: **West Temple Street**

Segment: **Firmin Street to Beaudry Avenue**

	DAYTIME			EVENING			NIGHTTIME			ADT	15500.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	950.61	11.62	4.52	702.51	2.06	2.07	175.96	15.50	6.03	% A	97.4
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	24.03	4.91	0.81	22.72	-2.60	-2.59	16.71	6.16	2.06		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.45
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.74
LEQ	64.73	55.32	56.44	63.41	47.81	53.04	57.40	56.57	57.69	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.74		EVENING LEQ	63.90		NIGHT LEQ	62.02		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.45**								

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Existing Plus Project Traffic Noise

Project: **7427 Firmin Court Project**
Road: **West Temple Street**
Segment: **Firmin Street to Beaudry Avenue**

	DAYTIME			EVENING			NIGHTTIME			ADT	15599.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	956.74	11.70	4.55	707.05	2.08	2.08	177.10	15.60	6.07	% A	97.40
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	24.06	4.94	0.83	22.75	-2.57	-2.56	16.74	6.18	2.08		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.48
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.77
LEQ	64.76	55.35	56.46	63.44	47.84	53.07	57.43	56.60	57.71	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.77		EVENING LEQ	63.93		NIGHT LEQ	62.04		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.48**								

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Future Without Project Traffic Noise

Project: **7427 Firmin Court Project**
Road: **West Temple Street**
Segment: **West of Edgeware Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	14700.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	901.54	11.02	4.29	666.25	1.96	1.96	166.88	14.70	5.72	% A	97.4
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	23.80	4.68	0.58	22.49	-2.83	-2.82	16.48	5.93	1.83		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.22
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.51
LEQ	64.50	55.09	56.21	63.18	47.58	52.81	57.17	56.34	57.46	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.51		EVENING LEQ	63.67		NIGHT LEQ	61.79		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.22**								

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Future With Project Traffic Noise

Project: **7427 Firmin Court Project**
Road: **West Temple Street**
Segment: **West of Edgeware Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	14799.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	907.68	11.10	4.32	670.79	1.97	1.98	168.02	14.80	5.76	% A	97.40
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	23.83	4.71	0.61	22.52	-2.80	-2.79	16.51	5.96	1.85		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.25
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.54
LEQ	64.53	55.12	56.24	63.21	47.61	52.84	57.20	56.37	57.49	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.54		EVENING LEQ	63.70		NIGHT LEQ	61.82		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.25**								

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Future Without Project Traffic Noise

Project: **7427 Firmin Court Project**

Road: **West Temple Street**

Segment: **Edgeware Road to Firmin Street**

	DAYTIME			EVENING			NIGHTTIME			ADT	15700.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	962.87	11.77	4.58	711.58	2.09	2.10	178.23	15.70	6.11	% A	97.4
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	24.09	4.96	0.86	22.78	-2.55	-2.53	16.76	6.21	2.11		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.51
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.80
LEQ	64.78	55.38	56.49	63.47	47.87	53.10	57.46	56.63	57.74	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.80		EVENING LEQ	63.96		NIGHT LEQ	62.07		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.51**								

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Future With Project Traffic Noise

Project: **7427 Firmin Court Project**
Road: **West Temple Street**
Segment: **Edgeware Road to Firmin Street**

	DAYTIME			EVENING			NIGHTTIME			ADT	15799.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	969.01	11.85	4.61	716.11	2.10	2.11	179.37	15.80	6.14	% A	97.40
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	24.12	4.99	0.89	22.80	-2.52	-2.51	16.79	6.24	2.14		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.53
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.82
LEQ	64.81	55.40	56.52	63.50	47.89	53.12	57.49	56.65	57.77	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.82		EVENING LEQ	63.99		NIGHT LEQ	62.10		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.53**								

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Future Without Project Traffic Noise

Project: **7427 Firmin Court Project**

Road: **West Temple Street**

Segment: **Firmin Street to Beaudry Avenue**

	DAYTIME			EVENING			NIGHTTIME			ADT	15800.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	969.01	11.85	4.61	716.11	2.10	2.11	179.37	15.80	6.14	% A	97.4
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	24.12	4.99	0.89	22.80	-2.52	-2.51	16.79	6.24	2.14		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.53
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.82
LEQ	64.81	55.40	56.52	63.50	47.89	53.12	57.49	56.65	57.77	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.82		EVENING LEQ	63.99		NIGHT LEQ	62.10		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.53**								

FHWA Traffic Noise Prediction Model FHWA-RD-77-108

Future With Project Traffic Noise

Project: **7427 Firmin Court Project**
Road: **West Temple Street**
Segment: **Firmin Street to Beaudry Avenue**

	DAYTIME			EVENING			NIGHTTIME			ADT	15899.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	43.00
INPUT PARAMETERS											
Vehicles per hour	975.14	11.92	4.64	720.64	2.12	2.12	180.50	15.90	6.18	% A	97.40
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	0.74
ADJUSTMENTS											
Flow	24.14	5.02	0.92	22.83	-2.49	-2.48	16.82	6.27	2.17		
Distance	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.56
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.85
LEQ	64.84	55.43	56.55	63.53	47.92	53.15	57.51	56.68	57.80	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.85		EVENING LEQ	64.01		NIGHT LEQ	62.13		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.56**								

APPENDIX F

SOUNDPLAN INPUTS AND OUPUTS FOR TRAFFIC NOISE IMPACTS TO THE PROJECT

Noise Emissions of Road Traffic

Station km	ADT Veh/24	Traffic values: Vehicles type	Vehicle name	day Veh/h	evenin Veh/h	night Veh/h	Speed km/h	Control device	Constr Speed km/h	Affect. veh. %	Road surface	Gradien Min / M %
101 - NB		Traffic direction: In entry direction										
0+000	13198	Total	-	8209	5994	1721	-	none	-	-	Average (of DGAC and PCC)	0.0
		Automobiles	-	8035	5965	1479	105					
		Medium trucks	-	127	21	176	105					
		Heavy trucks	-	48	8	66	105					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary Vehicl	-	-	-	-	-					
0+545	-							-	-	-	-	-
101 - SB		Traffic direction: In entry direction										
0+000	13198	Total	-	8209	5994	1721	-	none	-	-	Average (of DGAC and PCC)	0.0
		Automobiles	-	8035	5965	1479	105					
		Medium trucks	-	127	21	176	105					
		Heavy trucks	-	48	8	66	105					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary Vehicl	-	-	-	-	-					
0+297	13198	Total	-	8209	5994	1721	-	none	-	-	Average (of DGAC and PCC)	0.0
		Automobiles	-	8035	5965	1479	105					
		Medium trucks	-	127	21	176	105					
		Heavy trucks	-	48	8	66	105					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary Vehicl	-	-	-	-	-					
0+577	-							-	-	-	-	-
Temple - NB		Traffic direction: In entry direction										
0+000	10348	Total	-	645	473	132	-	none	-	-	Average (of DGAC and PCC)	-1.3 / 6.
		Automobiles	-	635	471	117	56					
		Medium trucks	-	8	1	11	56					
		Heavy trucks	-	3	1	4	56					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary Vehicl	-	-	-	-	-					
0+593	-							-	-	-	-	-
Temple - SB		Traffic direction: In entry direction										
0+000	10348	Total	-	645	473	132	-	none	-	-	Average (of DGAC and PCC)	-6.4 / 1.
		Automobiles	-	635	471	117	56					
		Medium trucks	-	8	1	11	56					
		Heavy trucks	-	3	1	4	56					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary Vehicl	-	-	-	-	-					
0+590	-							-	-	-	-	-

Contribution Levels of the Receivers

Source name	Lane	Level Day	Evening	Night	Lden
		dB(A)			
1 1.Fl		66.9	65.2	61.8	69.7
101 - NB		63.0	61.4	57.9	65.9
101 - SB		64.0	62.3	58.8	66.8
Temple - NB		52.3	50.4	48.2	55.8
Temple - SB		52.6	50.6	48.5	56.1
1 2.Fl		67.6	65.9	62.5	70.4
101 - NB		63.8	62.2	58.6	66.6
101 - SB		64.7	63.0	59.5	67.5
Temple - NB		53.0	51.1	48.6	56.3
Temple - SB		52.8	51.0	48.6	56.2
1 3.Fl		68.0	66.4	63.0	70.9
101 - NB		64.5	62.8	59.3	67.3
101 - SB		64.9	63.3	59.8	67.8
Temple - NB		53.2	51.4	49.0	56.6
Temple - SB		53.3	51.4	49.1	56.7
1 4.Fl		68.3	66.6	63.2	71.2
101 - NB		64.9	63.2	59.8	67.7
101 - SB		65.1	63.4	60.0	68.0
Temple - NB		53.1	51.2	48.7	56.4
Temple - SB		53.1	51.3	48.9	56.5
1 5.Fl		68.6	66.9	63.5	71.5
101 - NB		65.2	63.6	60.2	68.1
101 - SB		65.4	63.7	60.3	68.2
Temple - NB		53.0	51.1	48.7	56.3
Temple - SB		53.3	51.4	49.0	56.6
1 6.Fl		68.8	67.1	63.8	71.7
101 - NB		65.5	63.8	60.4	68.4
101 - SB		65.6	64.0	60.6	68.5
Temple - NB		52.6	50.7	48.5	56.0
Temple - SB		52.9	51.1	48.7	56.3
1 7.Fl		69.1	67.4	64.0	72.0
101 - NB		65.8	64.2	60.7	68.7
101 - SB		65.9	64.3	60.8	68.8
Temple - NB		52.5	50.6	48.3	55.9
Temple - SB		52.7	50.9	48.5	56.1
2 1.Fl		66.3	64.6	61.3	69.2
101 - NB		62.2	60.6	57.1	65.1
101 - SB		63.3	61.6	58.2	66.1
Temple - NB		53.4	51.4	49.6	57.0
Temple - SB		53.9	51.9	49.8	57.3
2 2.Fl		66.6	64.9	61.6	69.5
101 - NB		62.9	61.2	57.8	65.7
101 - SB		63.3	61.6	58.2	66.1
Temple - NB		53.9	52.0	49.9	57.4
Temple - SB		53.9	52.0	49.6	57.2
2 3.Fl		67.1	65.4	62.1	70.0
101 - NB		63.2	61.6	58.1	66.1
101 - SB		63.9	62.2	58.8	66.8
Temple - NB		54.2	52.3	50.3	57.8
Temple - SB		54.4	52.5	50.2	57.8
2 4.Fl		67.3	65.6	62.3	70.2
101 - NB		63.6	61.9	58.6	66.5
101 - SB		64.1	62.4	59.0	67.0
Temple - NB		53.8	51.9	49.8	57.3
Temple - SB		54.1	52.2	49.8	57.4
2 5.Fl		68.0	66.3	63.0	70.9
101 - NB		64.5	62.8	59.4	67.3
101 - SB		64.7	63.1	59.7	67.6

Contribution Levels of the Receivers

Source name	Lane	Level Day	Evening	Night	Lden
		dB(A)			
Temple - NB		53.8	51.9	49.8	57.3
Temple - SB		54.3	52.4	50.0	57.6
2 6.Fl		68.2	66.5	63.2	71.1
101 - NB		64.9	63.2	59.9	67.8
101 - SB		64.9	63.2	59.8	67.7
Temple - NB		53.6	51.6	49.7	57.2
Temple - SB		54.0	52.1	49.8	57.4
2 7.Fl		68.8	67.1	63.8	71.7
101 - NB		65.4	63.8	60.3	68.3
101 - SB		65.6	63.9	60.6	68.5
Temple - NB		53.4	51.5	49.5	57.0
Temple - SB		53.6	51.8	49.5	57.0
3 1.Fl		66.9	65.2	61.9	69.8
101 - NB		63.1	61.4	57.9	65.9
101 - SB		63.9	62.2	58.8	66.7
Temple - NB		52.4	50.4	48.6	56.0
Temple - SB		53.2	51.3	49.1	56.6
3 2.Fl		67.0	65.4	62.0	69.9
101 - NB		63.5	61.9	58.4	66.3
101 - SB		63.8	62.2	58.8	66.7
Temple - NB		52.6	50.7	48.7	56.2
Temple - SB		53.1	51.2	48.8	56.4
3 3.Fl		67.4	65.7	62.4	70.3
101 - NB		63.7	62.0	58.6	66.5
101 - SB		64.4	62.7	59.2	67.2
Temple - NB		53.2	51.2	49.3	56.8
Temple - SB		53.5	51.6	49.3	56.9
3 4.Fl		67.5	65.8	62.5	70.4
101 - NB		63.8	62.2	58.8	66.7
101 - SB		64.4	62.8	59.3	67.2
Temple - NB		52.8	50.8	48.9	56.4
Temple - SB		53.2	51.4	49.1	56.6
3 5.Fl		67.9	66.2	62.8	70.7
101 - NB		64.2	62.6	59.1	67.1
101 - SB		64.8	63.2	59.7	67.7
Temple - NB		52.9	51.0	48.9	56.4
Temple - SB		53.1	51.2	48.9	56.5
3 6.Fl		68.0	66.3	62.9	70.9
101 - NB		64.6	62.9	59.5	67.4
101 - SB		64.8	63.1	59.7	67.6
Temple - NB		52.5	50.5	48.6	56.1
Temple - SB		53.2	51.3	48.9	56.5
3 7.Fl		68.3	66.6	63.2	71.2
101 - NB		64.8	63.2	59.7	67.6
101 - SB		65.2	63.6	60.1	68.1
Temple - NB		52.3	50.3	48.5	56.0
Temple - SB		52.9	51.0	48.7	56.3
4 1.Fl		64.0	62.3	59.0	66.9
101 - NB		60.4	58.8	55.4	63.3
101 - SB		61.0	59.3	55.9	63.9
Temple - NB		48.7	46.8	44.6	52.1
Temple - SB		48.8	46.9	44.7	52.3
4 2.Fl		65.0	63.3	59.9	67.8
101 - NB		61.2	59.6	56.1	64.1
101 - SB		62.1	60.4	57.0	64.9
Temple - NB		49.6	47.8	45.2	52.8
Temple - SB		49.5	47.6	45.2	52.8

Contribution Levels of the Receivers

Source name	Lane	Level Day	Evening	Night	Lden
		dB(A)			
4 3.Fl		65.7	64.1	60.6	68.6
101 - NB		62.2	60.6	57.0	65.0
101 - SB		62.7	61.1	57.6	65.6
Temple - NB		50.1	48.3	45.7	53.4
Temple - SB		49.9	48.1	45.7	53.3
4 4.Fl		66.0	64.3	60.9	68.8
101 - NB		62.7	61.1	57.6	65.6
101 - SB		62.7	61.1	57.7	65.6
Temple - NB		49.9	48.0	45.6	53.2
Temple - SB		49.7	47.8	45.6	53.1
4 5.Fl		66.2	64.5	61.1	69.1
101 - NB		63.0	61.3	57.9	65.8
101 - SB		62.9	61.3	57.9	65.8
Temple - NB		49.7	47.8	45.3	53.0
Temple - SB		49.4	47.6	45.2	52.8
4 6.Fl		66.4	64.7	61.4	69.3
101 - NB		63.2	61.5	58.2	66.1
101 - SB		63.2	61.5	58.1	66.0
Temple - NB		49.3	47.4	45.0	52.6
Temple - SB		49.3	47.4	45.0	52.6
4 7.Fl		66.6	64.9	61.6	69.5
101 - NB		63.5	61.8	58.4	66.3
101 - SB		63.4	61.7	58.3	66.3
Temple - NB		48.9	47.0	44.8	52.3
Temple - SB		48.9	47.0	44.8	52.3
5 1.Fl		61.3	59.7	56.4	64.3
101 - NB		58.0	56.3	53.1	60.9
101 - SB		58.4	56.8	53.4	61.4
Temple - NB		42.5	40.3	39.2	46.4
Temple - SB		41.3	38.9	38.5	45.6
5 2.Fl		62.2	60.5	57.1	65.1
101 - NB		58.6	56.9	53.5	61.4
101 - SB		59.3	57.7	54.2	62.1
Temple - NB		46.0	44.2	41.7	49.4
Temple - SB		46.1	44.2	41.9	49.5
5 3.Fl		63.0	61.4	57.9	65.9
101 - NB		59.6	57.9	54.3	62.3
101 - SB		60.1	58.5	55.0	63.0
Temple - NB		46.6	44.7	42.1	49.8
Temple - SB		46.2	44.4	41.9	49.5
5 4.Fl		63.5	61.8	58.4	66.4
101 - NB		60.2	58.5	55.1	63.0
101 - SB		60.4	58.8	55.3	63.3
Temple - NB		47.0	45.2	42.6	50.3
Temple - SB		46.6	44.7	42.4	50.0
5 5.Fl		63.6	61.9	58.5	66.4
101 - NB		60.4	58.8	55.3	63.3
101 - SB		60.3	58.6	55.2	63.1
Temple - NB		47.0	45.2	42.7	50.3
Temple - SB		46.7	44.8	42.5	50.1
5 6.Fl		63.6	62.0	58.6	66.5
101 - NB		60.4	58.8	55.4	63.3
101 - SB		60.5	58.8	55.4	63.4
Temple - NB		46.6	44.7	42.4	50.0
Temple - SB		46.3	44.4	42.2	49.8
5 7.Fl		63.8	62.2	58.8	66.7
101 - NB		60.6	58.9	55.5	63.5
101 - SB		60.8	59.1	55.6	63.6

Contribution Levels of the Receivers

Source name	Lane	Level			
		Day	Evening	Night	Lden
		dB(A)			
Temple - NB		46.4	44.5	42.0	49.7
Temple - SB		46.0	44.1	41.8	49.4

Receiver List

No.	Receiver name	Building side	Floor	Limit				Level				Conflict			
				Day	Evening	Night	Lden	Day	Evening	Night	Lden	Day	Evening	Night	Lden
				dB(A)				dB(A)				dB(A)			
1	1	North ea	1.Fl	-	-	-	-	66.9	65.2	61.8	69.7	-	-	-	-
			2.Fl	-	-	-	-	67.6	65.9	62.5	70.4	-	-	-	-
			3.Fl	-	-	-	-	68.0	66.4	63.0	70.9	-	-	-	-
			4.Fl	-	-	-	-	68.3	66.6	63.2	71.2	-	-	-	-
			5.Fl	-	-	-	-	68.6	66.9	63.5	71.5	-	-	-	-
			6.Fl	-	-	-	-	68.8	67.1	63.8	71.7	-	-	-	-
			7.Fl	-	-	-	-	69.1	67.4	64.0	72.0	-	-	-	-
2	2	North ea	1.Fl	-	-	-	-	66.3	64.6	61.3	69.2	-	-	-	-
			2.Fl	-	-	-	-	66.6	64.9	61.6	69.5	-	-	-	-
			3.Fl	-	-	-	-	67.1	65.4	62.1	70.0	-	-	-	-
			4.Fl	-	-	-	-	67.3	65.6	62.3	70.2	-	-	-	-
			5.Fl	-	-	-	-	68.0	66.3	63.0	70.9	-	-	-	-
			6.Fl	-	-	-	-	68.2	66.5	63.2	71.1	-	-	-	-
			7.Fl	-	-	-	-	68.8	67.1	63.8	71.7	-	-	-	-
3	3	South e	1.Fl	-	-	-	-	66.9	65.2	61.9	69.8	-	-	-	-
			2.Fl	-	-	-	-	67.0	65.4	62.0	69.9	-	-	-	-
			3.Fl	-	-	-	-	67.4	65.7	62.4	70.3	-	-	-	-
			4.Fl	-	-	-	-	67.5	65.8	62.5	70.4	-	-	-	-
			5.Fl	-	-	-	-	67.9	66.2	62.8	70.7	-	-	-	-
			6.Fl	-	-	-	-	68.0	66.3	62.9	70.9	-	-	-	-
			7.Fl	-	-	-	-	68.3	66.6	63.2	71.2	-	-	-	-
4	4	North w	1.Fl	-	-	-	-	64.0	62.3	59.0	66.9	-	-	-	-
			2.Fl	-	-	-	-	65.0	63.3	59.9	67.8	-	-	-	-
			3.Fl	-	-	-	-	65.7	64.1	60.6	68.6	-	-	-	-
			4.Fl	-	-	-	-	66.0	64.3	60.9	68.8	-	-	-	-
			5.Fl	-	-	-	-	66.2	64.5	61.1	69.1	-	-	-	-
			6.Fl	-	-	-	-	66.4	64.7	61.4	69.3	-	-	-	-
			7.Fl	-	-	-	-	66.6	64.9	61.6	69.5	-	-	-	-
5	5	North w	1.Fl	-	-	-	-	61.3	59.7	56.4	64.3	-	-	-	-
			2.Fl	-	-	-	-	62.2	60.5	57.1	65.1	-	-	-	-
			3.Fl	-	-	-	-	63.0	61.4	57.9	65.9	-	-	-	-
			4.Fl	-	-	-	-	63.5	61.8	58.4	66.4	-	-	-	-
			5.Fl	-	-	-	-	63.6	61.9	58.5	66.4	-	-	-	-
			6.Fl	-	-	-	-	63.6	62.0	58.6	66.5	-	-	-	-
			7.Fl	-	-	-	-	63.8	62.2	58.8	66.7	-	-	-	-



GANDDINI GROUP, INC.
550 Parkcenter Drive, Suite 202, Santa Ana, CA 92705
714.795.3100 | www.ganddini.com

Appendix E

NAHC Sacred Lands File Search Results

NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone: (916) 373-3710
Email: nahc@nahc.ca.gov
Website: http://www.nahc.ca.gov
Twitter: @CA_NAHC

October 8, 2018

Lainie Herrera
ECOTierra Consulting

VIA Email to:lainie@ecotierraconsulting.com

RE: Firmin Court Project, Los Angeles County.

Dear Ms. Herrera,

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: Katy.Sanchez@nahc.ca.gov.

Sincerely,

Katy Sanchez

Katy Sanchez
Associate Environmental Planner

Attachment

Native American Heritage Commission
Native American Consultation List
10/8//2018

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393 Gabrielino
Covina ,CA 91723
admin@gabrielenoindians.org
(626) 926-4131

Gabrielino-Tongva Tribe
Charles Alvarez, Councilmember
23454 Vanowen St. Gabrielino
West Hills ,CA 91307
roadkingcharles@aol.com
(310) 403-6048

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 Gabrielino Tongva
San Gabriel ,CA 91778
GTTribalcouncil@aol.com
(626) 483-3564 Cell
(626) 286-1262 Fax

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231 Gabrielino Tongva
Los Angeles ,CA 90012
sgoad@gabrielino-tongva.com
(951) 807-0479

Gabrielino Tongva Indians of California Tribal Council
Robert F. Dorame, Chairman
P.O. Box 490 Gabrielino Tongva
Bellflower ,CA 90707
gtongva@gmail.com
(562) 761-6417 Voice/Fax

Gabrielino-Tongva Tribe
Linda Candelaria, Chairperson
80839 Camino Santa Juliana Gabrielino
Indio ,CA 92203
lcandelaria1@gabrielinotribe.org

This list is current only as of the date of this document and is based on the Information available to the Commission on the date it was produced.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Code, or Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native American Tribes for the proposed:
Firmin Court Project, Los Angeles County

Appendix F

Historic Resources Assessment Report

Historical Resources Assessment Report for
418, 426, 430 N. Firmin Street
Los Angeles, California 90004

Prepared for:

Decro Corporation
(Mr. Ted M. Handel)

Prepared by:

Sapphos Environmental, Inc.
430 North Halstead Street
Pasadena, California 91107

October 2018

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ATTACHMENTS

A	DPR 523 Series Forms

SECTION 1
EXECUTIVE SUMMARY

This document presents the results of a Historical Resources Assessment Report undertaken on behalf of the owner of the subject properties located at 418, 426, 430 N. Firmin Street, Los Angeles, California (APN 516-022-012, 007, 006) (collectively, the properties). 418 and 430 N. Firmin Street each contain one single-family residence and one detached garage, and 426 N. Firmin Street is vacant. Because 426 N. Firmin Street is vacant, it was not documented and evaluated in this Historical Resources Assessment Report. The owner is proposing to develop a 64-unit affordable housing project on the properties, including 42 permanent supportive housing units (project). The entitlements for the project consist of Project Permit Compliance, Transit Oriented Communities approval, and a Waiver of Dedication.

The property located at 430 N. Firmin Street was listed as a "Historic Resource" in Appendix A of the Central City West (CCW) Specific Plan that was adopted by the City of Los Angeles (City) in 1991.[1] The use of this terminology in the 1991 CCW Specific Plan is not consistent with current terminology.

Between 2010 and 2017, the Office of Historic Resources in the City Department of City Planning conducted a field survey (SurveyLA) of over 880,000 legal parcels to identify and document significant historic resources within the City of Los Angeles. SurveyLA does not contain any reference for the property as a "Historic Resource." The subject properties are not identified as contributors to an existing Historic Preservation Overlay Zone (HPOZ) and were not identified as eligible for listing in the National Register of Historic Places (National Register), California Register of Historical Resources (California Register), or for designation as an Historic-Cultural Monument (HCM) by SurveyLA.

In the context of this report, because the subject properties have buildings greater than 50 years of age, a survey and evaluation of the subject properties was required in order to determine whether the subject properties are "historical resources" pursuant to the California Environmental Quality Act (CEQA), as that term is defined in Section 15064.5 of the CEQA Guidelines[2]. The subject properties were evaluated by Sapphos Environmental, Inc. (Mr. Donald Faxon and Ms. Carrie Chasteen) to determine if they are individually eligible for inclusion in federal, state, or local historical registers or contributors to a potential HPOZ. The review was based on site investigations of the properties; literature review and online research; and an application of federal, state, and local register eligibility criteria.

As a result of this investigation, it was determined that the primary residence located at 430 N. Firmin Street is potentially eligible for the National Register, the California Register, and as an HCM under Criteria A/1/1 (events), as a rare intact residence that reflects the early residential development in the neighborhoods of the City under the SurveyLA Residential Development and Suburbanization/Early Residential Development, 1880–1930 theme. Oil was first discovered in the City in 1892, and the discovery resulted in economic and real estate booms. Early development in the City centered around downtown and suburban expansion radiated outward in all directions. The subject properties are located within the Westlake Community Plan Area (CPA), which is one of the earliest residential

[1] The survey methodology and criteria for assessing properties for designation as Historic Resources was not defined in the CCW Specific Plan or supporting Environmental Impact Report.

[2] The CEQA Regulations are set forth in Title 14, Section 15000, of the California Code of Regulations.

suburbs in the history of the City. The primary residence at 430 N. Firmin Street is a modest cottage that represents this early period of suburban expansion which directly resulted from the discovery of oil. Therefore, the primary residence located at 430 N. Firmin Street reflects the patterns of community planning and development during the early suburban development of the City. The period of significance is 1895, the year the building was constructed, which broadly covers the earliest periods of residential development within the present- day boundaries of the City's and following the City's incorporation in 1850. The primary residence located at 430 N. Firmin Street therefore constitutes a historical resource as defined in Section 15064.5(a) of the CEQA Guidelines. The detached garage is not a character-defining feature of the property and is not a historical resource pursuant to Section 15064.5(a) of the CEQA Guidelines. The buildings located at 418 N. Firmin Street have been substantially altered and therefore, are not eligible for listing in federal, state, or local historical registers and are not historical resources pursuant to CEQA.

SECTION 2
PROJECT LOCATION

The project is located within the Westlake CPA of the City, just west of downtown and south of Angelino Heights, the City's first HPOZ, and includes 418, 426, and 430 N. Firmin Street (APNs 5160-002-012, 007, 006). The properties are located south of W. Temple Street on a slight rise that creates some prominence for the sites when viewed from the arterial street (Figure 1, *Sketch Map for 418, 426, 430 N. Firmin Street;* Figure 2, *Project Location Map for 418, 426, 430 N. Firmin Street*).



Figure 1. Sketch Map for 418, 426, 430 N. Firmin Street
SOURCE: *Sapphos Environmental, 2017*

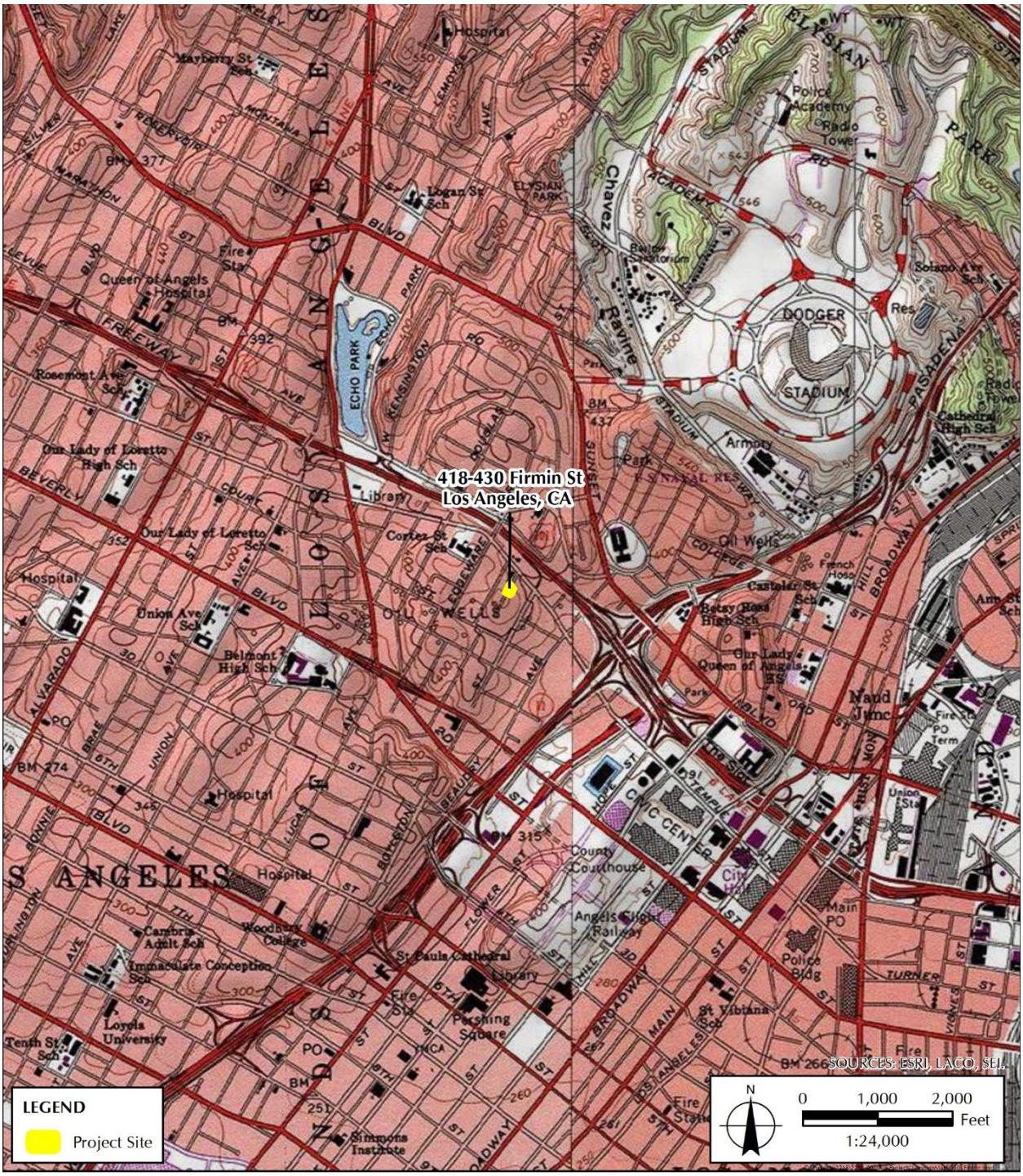


Figure 2. Project Location Map for 418, 426, 430 N. Firmin Street
SOURCE: *U.S. Geological Survey, 1991*

SECTION 3
PROJECT DESCRIPTION/SUMMARY

The Owner proposes to demolish the residential buildings located at 418 and 430 N. Firmin Street and apply Transit Oriented Communities (TOC) incentives under City Municipal Code Section 12.22.A.31, to construct the project, consisting of a new 5- to 7-story, 64-unit, 100-percent affordable residential building. This building would consist of approximately 51,299 square feet of total floor area with 42 units of Permanent Supportive Housing (PSH), 22 low-income units and approximately 1,900 square feet of PSH supportive services areas (including office, kitchen, and community rooms) uses. PSH housing is provided for persons with extremely low incomes and may include adults, families with children, elderly persons, veterans, transition-aged youth, and persons who are considered to be "chronically homeless." The supportive services that are provided to the PSH residents on a voluntary basis include, but are not limited to, a combination of case management, medical and health care, substance abuse treatment, employment services, benefits advocacy, and other services necessary to obtain and maintain housing.

The project proposes to reach a maximum height not to exceed 86 feet, as measured from the lowest point of the project site; however, due to the slope of the project site, the building ranges in height from 69 feet (5 stories) to 86 feet, (7 stories). The total floor area of the project will be approximately 51,299 square feet, or 4.35 Floor Area Ratio (FAR). The residential unit configuration consists of studio, 1- bedroom, 2-bedroom, and 3-bedroom units.

SECTION 4
CURRENT SETTING

The neighborhood around the subject properties possesses proximity to the center of the City and thus was largely developed just before and after the turn of the 20th century, representing one of the earlier subdivision developments of middle-class worker housing in the City. Residential development to the southwest and northwest of the subject properties is characterized by small parcels with single-family and large, multi-family residences, dating primarily from the 1890s through the 1920s that reflect a variety of architectural styles. Common alterations include window replacements, window opening alterations, secondary coats of stucco, and inappropriate additions. The SurveyLA map of Firmin Street shows that only one property was improved after 1929. To the northeast and southeast, commercial development exists and large new multi-family projects are under construction (Figures 3A–F, *Examples of Architecture, Firmin Street, Westlake CPA of Los Angeles)*. The street was originally named Fireman and it is not known when this was shortened to Firmin (Figure 4, *General View of Firmin Street, Facing South*).[3]

[3] Sanborn Maps, Los Angeles, 1906–January 1950, Vol 2 (1906), Sheet Oa.



315 Firmin Street



421 Firmin Street



427 Firmin Street



430 N. Bixel Street



410 Firmin Street



318 Firmin Street

Figures 3A–F. Examples of Architecture, Firmin Street, Westlake CPA of Los Angeles
SOURCE: *Sapphos Environmental, Inc., 2017*



Figure 4. General View of Firmin Street, Facing South
SOURCE: *Sapphos Environmental, Inc., 2018*

Recently, Lion Real Estate Group completed construction of a 121-unit multi-family residential development behind the Owner's property located at 327 Boylston Street. In addition, other large new multi-family projects located nearby are under construction or about to commence construction (Figure 5, *Map of Infill Development in the Vicinity of the Project Site;* Figure 6, *327 N. Boylston Street, Behind the Project Site*; Figure 7, *418 Edgeware Road, West of the Project Site*; Figure 8, *200 N. Bixel Street, South of the Project Site*).

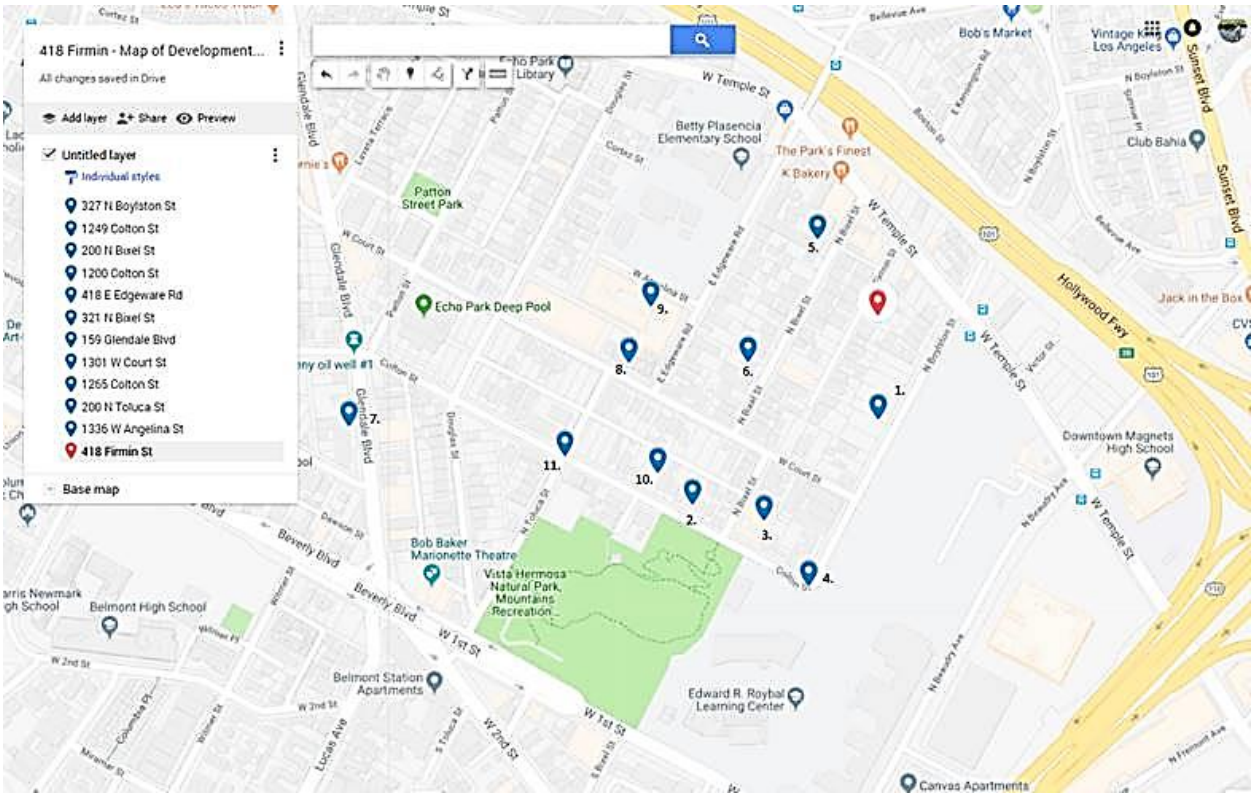


Figure 5. Map of Infill Development in the Vicinity of the Project Site
SOURCE: *Glaser Weil, 2018*



Figure 6. 327 N. Boylston Street, Behind the Project Site
SOURCE: *Glaser Weil, 2018*



Figure 7. 418 Edgeware Road, West of the Project Site
SOURCE: *Glaser Weil, 2018*



Figure 8. 200 N. Bixel Street, South of the Project Site
SOURCE: *Glaser Weil, 2018*

The setting of the subject properties is changing as a result of infill construction and alteration of existing buildings. The feeling of this neighborhood within the Westlake CPA as an early residential suburb of the City's downtown has been compromised as a result.

SECTION 5
METHODOLOGY

In preparing this Historical Resource Assessment Report, the following tasks were completed:

1. Field inspections were conducted of the subject properties on July 18, 2017, and August 10, 2018, to ascertain the general condition and physical integrity of the buildings thereon. Digital photographs were taken during the site inspections. Field notes were made.

2. Comparisons were made to the nearby similar properties within the Westlake CPA that were determined individually eligible under Criteria A/1/1 for the National Register, California Register, and HCM. These include 212 N. Belmont Avenue and 248 N. Belmont Avenue.[4]

3. Building permits for the parcels were obtained from the City Department of Building and Safety and reviewed. Dates of construction and subsequent alterations were determined by the building permit record, as well as additional resources, such as the field inspection, Sanborn maps, and historic aerial photographs.

4. Researched the subject properties and surrounding area at local libraries and archives to establish the general history and context in order to inform an evaluation, including a review of newspapers, city directories, and articles.

5. A record search and literature review were conducted at the South Central Coastal Information Center on July 24, 2018.

6. Consulted the Context/Theme/Property Type (CTP) eligibility standards formulated for the City Historic Context Statement to identify the appropriate CTP under which to evaluate the buildings on the subject properties.

Reviewed and analyzed ordinances, statues, regulations, bulletins, and technical materials relating to federal, state, and local historic preservation assessment processes and programs to evaluate the significance and integrity of the buildings on the project site.

[4] City of Los Angeles Department of City Planning, Office of Historic Resources, Los Angeles, CA. April 2014. "SurveyLA Historic Resources Survey Report, Westlake Community Plan Area." Prepared by: Architectural Resources Group, Inc., Pasadena, CA. pp. 2–3. Accessed at http://preservation.lacity.org/sites/default/files/Westlake%20Individual%20Resources_0.pdf

SECTION 6
REGULATORY FRAMEWORK

6.1 FEDERAL

The National Historic Preservation Act of 1966, as amended, defines the criteria to be considered eligible for listing in the National Register:

> *The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and*
>
> *A. that are associated with events that have made a significant contribution to the broad patterns of our history; or*
>
> *B. that are associated with the lives of persons significant in our past; or*
>
> *C. that embody distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or*
>
> *D. that have yielded, or may be likely to yield, information important in prehistory or history* (36 Code of Federal Regulations [CFR] Section part 63).

In order to be considered eligible, a property must meet at least one of the above four criteria. According to *National Register Bulletin No. 15*, "to be eligible for listing in the National Register, a property must not only be shown to be significant under National Register criteria, but it also must have integrity." Integrity is defined in *National Register Bulletin No. 15* as "the ability of a property to convey its significance."[5] Within the concept of integrity, the National Register recognizes the following seven aspects or qualities that in various combinations define integrity: location, design, setting, materials, workmanship, feeling, and association. Location is the place where the historic property was constructed or the place where the historic event occurred. Design is the combination of elements that create the form, plan, space, structure, and style of a property. Setting is the physical environment of a historic property. Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property. Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. Association is the direct link between an impact historic event or person and a historic property.

6.2 STATE OF CALIFORNIA

Section 5024.1(c), Title 14 CCR, Section 4852 of the California Public Resources Code defines the criteria to be considered eligible for listing in the California Register:

[5] National Park Service, U.S. Department of the Interior. 2017. *National Register Bulletin, How to Apply the National Register Criteria for Evaluation*. Available at: https://www.nps.gov/nr/publications/bulletins/nrb15/

A resource may be listed as an historical resource in the California Register if it meets any of the following [National Register] *criteria:*

1. *Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;*

2. *Is associated with the lives of persons important in our past;*

3. *Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or*

4. *Has yielded, or may be likely to yield, information important in prehistory or history*.

In addition to meeting one of the four criteria above, to be eligible for listing in the California Register, a property must also retain sufficient integrity to convey its significance. Section 4852(C) of the California Code of Regulations[6] defines integrity as follows:

Integrity is the authenticity of an historical resource's physical identity evidenced by the survival of characteristics that existed during the resource's period of significance. Historical resources eligible for listing in the California Register must meet one of the criteria of significance described in section 4852(b) of this chapter and retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance. Historical resources that have been rehabilitated or restored may be evaluated for listing.

Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. It must also be judged with reference to the particular criteria under which a resource is proposed for eligibility. Alterations over time to a resource or historic changes in its use may themselves have historical, cultural, or architectural significance.

Section 15064.5 of the CEQA Guidelines defines a substantial adverse change to a historical resource listed or eligible for listing in the California Register:

(b) A project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment.

(1) Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired.

(2) The significance of an historical resource is materially impaired when a project:

(A) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register of Historical Resources; or

[6] California Office of Historic Preservation. 1999. *California State Law and Historic Preservation*, 4853 (c), p. 66.

(B) Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or

(C) Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register of Historical Resources as determined by a lead agency for purposes of CEQA.

(3) Generally, a project that follows the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings or the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings (1995), Weeks and Grimmer (together, the "Standards"), shall be considered as mitigated to a level of less than a significant impact on the historical resource.

Section 5024.1(g), Title 14 CCR, Section 4852 of the California Public Resources Code defines the criteria for surveys for historical resources to be considered eligible for listing in the California Register:

1. *The survey has been or will be included in the State Historic Resources Inventory.*
2. *The survey and the survey documentation were prepared in accordance with office procedures and requirements.*
3. *The resource is evaluated and determined by the office to have a significance rating of Category 1 to 5 on DPR Form 523.*
4. *If the survey is five or more years old at the time of its nomination for inclusion in the California Register, the survey is updated to identify historical resources which have become eligible or ineligible due to changed circumstances or further documentation and those which have been demolished or altered in a manner that substantially diminishes the significance of the resource.*

The California Office of Historic Preservation provides the following guidance for completing historic resource surveys:

Historic resource surveys are performed to identify, record, and evaluate historic properties within a community, neighborhood, project area, or region. Surveys provide information needed to make informed planning decisions, prioritize preservation goals and objectives, develop and implement land use policies, perform environmental reviews pursuant to CEQA, develop adaptive reuse and heritage tourism initiatives, educate the public, and increase the understanding of and appreciation for the built environment as a tangible reminder of the community's history. Surveys also assist in the identification of resources worthy of designation in a local register of historic resources, the California Register, or the National Register, as well as properties potentially eligible for federal tax benefits or other state and local preservation incentives.

Surveys should be updated regularly to consider properties that may have achieved significance since the survey was originally conducted and to incorporate resources that

were initially overlooked. Updating an existing survey offers an opportunity to identify and document physical changes that have occurred to a property and its surroundings since the last survey, and to identify sites where historic properties have since been moved or demolished. Finally, as architectural values were often the only criterion for significance in older surveys and resources were frequently only evaluated for the National Register, a survey update should provide for reevaluating properties within broader historic contexts using local, California, and National Register criteria.

Local government surveys should consider the presence of potential historic districts which may be eligible for national, state, or local designation or may warrant special consideration in local planning such as the development of design guidelines, [HPOZs]*, conservation zones, or review by a historic preservation commission prior to granting permits for demolitions or other actions which could alter or destroy district contributors.*[7]

6.3 CITY OF LOS ANGELES

***Historic-Cultural Monument*.** Section 22.171.7 of the City Cultural Heritage Ordinance defines an HCM:

For purposes of this article, an HCM is any site (including significant trees or other plant life located on the site), building or structure of particular historic or cultural significance to the City of Los Angeles. A proposed HCM may be designated by the City Council upon the recommendation of the Commission if it meets at least one of the following criteria:

1. *Is identified with important events of national, state, or local history, or exemplifies significant contributions to the broad cultural, economic, or social history of the nation, state, city or community;*

2. *Is associated with the lives of historic personages important to national, state, city, or local history; or*

3. *Embodies the distinctive characteristics of a style, type, period, or method of construction; or represents a notable work of a master designer, builder, or architect whose individual genius influenced his or her age.* [8]

Unlike the National and California Registers, the City Cultural Heritage Ordinance makes no mention of concepts such as integrity or period of significance. Additionally, properties do not have to reach a minimum age, such as 45 to 50 years, to be designated as HCMs.

***Historic Preservation Overlay Zone*.** The City has established 36 Historic Preservation Overlay Zones (HPOZs), or historic districts. City Ordinance No. 175891 amended Section 12.20.3 of the City's municipal code regarding HPOZs. The purpose of the ordinance was stated as:

It is hereby declared as a matter of public policy that the recognition, preservation, enhancement, and use of buildings, structures, Landscaping, natural features, and areas

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[7] California Office of Historic Preservation. 2018. *Historic Resource Surveys*. Accessed July 22, 2018. Available at: http://ohp.parks.ca.gov/?page_id=23317

[8] City of Los Angeles. 2018. Ordinance No. 185472, Section 22.171.7. Available at: https://preservation.lacity.org/sites/default/files/Cultural%20Heritage%20Ordinance%2C%20Revised%202018.pdf

within the City of Los Angeles having Historic, architectural, cultural, or aesthetic significance are required in the interest of the health, economic prosperity, cultural enrichment, and general welfare of the people.

Contributing elements are defined as any building, structure, landscape, or natural feature identified in a historic resource survey as contributing to the historic significance of the HPOZ, including a building or structure which has been altered, where the nature and extent of the alterations are determined reversible by the historic resources survey.

7.1 RECORD SEARCH

A cultural resource record search was conducted by Sapphos Environmental, Inc. (Ms. Carrie Chasteen) at the South Central Coastal Information Center (SCCIC), located at California State University, Fullerton on July 24, 2018. The search was conducted in Township 1 South, Range 13 West, Section 21 within the U.S. Geological Survey (USGS) 7.5-minute series Hollywood topographic quadrangle. The results of the record search indicate no surveys were previously conducted of the subject properties and six surveys were conducted exclusively within a 0.25-mile search radius of the subject properties (Table 1, *Previous Cultural Resource Surveys and Report within the Study Area)* One built environment resource has been previously documented and is located exclusively within the 0.25-mile search radius (Table 2, *Previously Recorded Cultural Resources within the Study Area*).

TABLE 1
PREVIOUS CULTURAL SURVEYS AND REPORTS
WITHIN THE STUDY AREA

Report No.	Year	Report Title	Report Type	Within Property	Within 0.25-Mile Buffer	Authors
LA-01741	1989	Archaeological and Paleontological Reconnaissance and Impact Evaluation of the Central City West Study Area, Los Angeles, California	Archaeological, Field Study; Management/Planning		X	Dillon, Brian D., PhD; Roy A Salls PHD
LA-02768	1989	Draft Environmental Impact Report for Central City West Specific Plan	Management/Planning		X	City of Los Angeles
LA-06362	1994	Finding of Effect on Historic Properties: Arroyo Seco Parkway and Four-Level Interchange	Management/Planning		X	Borg, Roger
LA-07382	2004	Request for SHPO Review of FCC Undertaking for CA-7728A/Cortez for 1333 W. Temple Street, Los Angeles, California	Management/Planning		X	Thal, Erika
LA-08252	N/A	Historic Bridges in California: Concrete Arch, Concrete Girder, Concrete Slab, Canticrete, Stone Masonry, Suspension, Steel Girder, and Steel Arch	Built environment study		X	Snyder, John W.; Stephen Mikesell; Diane Pierzinski
LA-10149	2009	Finding of No Adverse Effect for US101 from Alameda Street Underpass to Barham Boulevard Overcrossing	Management/Planning		X	Stewart, Noah

TABLE 2
PREVIOUSLY RECORDED CULTURAL RESOURCES
WITHIN THE STUDY AREA

Primary Number	Description	Within Property	Within 0.25-Mile Buffer	Attribute Code	Resource Type	CRHR Status Code
19-119434	330-332 ½ Firmin Street		X	HP3 (Multiple Family Property)	Building	6Y

Additionally, the Historic Resources Inventory (HRI) for Los Angeles County, available from the California Office of Historic Preservation, and historic U.S. Geological Survey (USGS) 7.5-minute series topographic maps and aerial photographs were reviewed for the subject and adjacent properties. In addition to official maps and records, the following sources of information were consulted as part of the cultural resource record search:

- National Register of Historic Places – Listed (2018);
- California Register of Historical Resources – Listed (2018);
- California State Historical Landmarks (1996 and updates);
- California Points of Historical Interest (1992 and updates);
- HistoricPlacesLA (2018); and
- SurveyLA (2014)

7.2 PREVIOUS EVALUATIONS/DESIGNATIONS SUMMARY

Based upon a review of the Historic Property Data File and the list of California Historical Resources maintained by the California Office of Historic Preservation,[9] the subject properties were not surveyed previously. 430 N. Firmin Street was identified as a "Historic Resource" in the CCW Specific Plan that was adopted by the City in 1991.[10] The use of this terminology in the 1991 CCW Specific Plan is not consistent with current terminology.

[9] California Office of Historic Preservation. 2018. "Listed California Historical Resources." Accessed August 17, 2018. Available at: http://ohp.parks.ca.gov/ListedResources

[10] The survey methodology and criteria for assessing properties for designation as Historic Resources was not defined in the CCW Specific Plan or supporting Environmental Impact Report.

SECTION 8
HISTORY AND DESCRIPTION OF THE SURROUNDING AREA

This report employs the historic contexts, themes, and criteria considerations of the City Planning Commission's SurveyLA initiative 2014 Historic Context Statement for the Westlake Community Plan Area.[11]

Early Development History of the Westlake Community Plan Area in Los Angeles

> *The Westlake* CPA *contains some of the oldest residential and commercial development in the city. The area was first recorded in 1857 by U.S. Deputy Surveyor Henry Hancock. Hancock was assigned to survey the four square leagues of land confirmed to the City of Los Angeles by the U.S. Land Commission Patent of 1856. The original patent land included the CPA, with the patent boundary extending west to Hoover Street. At the time, the vast majority of the land was unoccupied, and Hancock divided the landscape into square tracts, extending the orthogonal grid planning which had been imposed by earlier surveys and was originally dictated by the Laws of the Indies. As the land passed into private ownership, the City constructed streets along the boundary lines between the tracts, giving rise to such present-day thoroughfares as Rampart Boulevard and Alvarado Street.*[12]
>
> *The CPA was first settled in the 1860s, after a series of floods in the lower plains made the highland area to the west of downtown a popular alternative. The land was also used for dairy farming and agricultural purposes. As the population of Los Angeles grew, the land immediately to the west of downtown became increasingly desirable for residential development. The first subdivision in the Westlake area was recorded in 1877 with the creation of the Fairmount Tract, which established 132 residential lots east of Union Street, between 9th Street and present-day Wilshire Boulevard. By the mid-1880s, a large portion of the CPA had been subdivided and entire neighborhoods were under construction throughout the area. In 1885, the Colina Park tract was developed adjacent to the western terminus of the proposed 2nd Street cable railway.*
>
> *Additional tracts were developed along the railway line, and middle- and upper-class residents quickly came to appreciate the area's proximity to the downtown commercial core and the easy access provided by the railway. By 1889, area residents had christened the neighborhood "Crown Hills," which eventually became known by its present-day singular nickname of "Crown Hill." A new board of trade association was formed that year to promote the interests of businesses at the western end of the cable line.*[13] *Crown Hill quickly became one of the most desirable places for wealthy businessmen to build their family homes, along with nearby Bunker Hill and Angelino Heights.*[14] *Other important early tracts included the Park Tract, the Washington Tract, the Downey Tract, and the Satter Tract. While many of the*

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[11] City of Los Angeles Department of City Planning, Office of Historic Resources. Los Angeles, CA. April 2014. "SurveyLA Historic Resources Survey Report, Westlake Community Plan Area." Prepared by: Architectural Resources Group, Inc., Pasadena, CA.

[12] "Why L.A. Has Clashing Street Grids." Accessed November 2013. Available at: http://www.kcet.org/updaily/socal_focus/history/la-as-subject/tracing-the-paths-through-las-past.html

[13] "Crown Hills: A Section of the City Christened – New Board of Trade." 1 December 1889. *Los Angeles Times*.

[14] Bunker Hill and Angelino Heights are both located just outside the CPA.

most elaborate residences have since been relocated to areas like Alvarado Terrace and South Bonnie Brae, more modest examples remain in place.

In the early years of development in the Westlake area, there were several developers who played significant roles in shaping the local landscape. George C. Knox, the City Engineer from 1883 to 1885, was the sole subdivider of several early tracts, including the Westlake Park Tract, [where the subject property is located]; *the West End Terrace Tract; and the West End Terrace Tract. Knox also partnered with E. A. Forrester, who served as County Supervisor, to subdivide the Westlake Tract. Knox's successor, Fred Eaton, began his own real estate development career, which included developing further subdivisions in Westlake. George Rufus Shatto developed the residential avenue of Orange Street, what is now the easternmost portion of Wilshire Boulevard, as part of the Orange Heights Tract. Shatto made his fortune in mining and purchased Santa Catalina Island in 1887. In 1890, he began construction of a massive Victorian residence at Orange Street and Lucas Avenue, which included a four-story tower from which Shatto could see Catalina. Eventually, Good Samaritan Hospital would replace all of the residences along this stretch of Orange Street. Today, two remnants of the original rusticated stone wall are all that remain of Shatto's elaborate residence. Other prominent developers included S.A. Mattison, developer of the Knob Hill and West Bonnie Brae Tracts; Joseph B. Banning, who developed the South Bonnie Brae Tract; and Oscar B. Smith, who developed the Crown Hill Tract.*

The most well-known developers, however, were brothers Henry Gaylord Wilshire and William Wilshire. After several successful real estate ventures in Long Beach and Orange County, the Wilshire brothers purchased 35 acres in the Westlake area in 1887 in anticipation of the City's westward expansion. The Wilshires' land acquisition spanned the western portion of the CPA, stretching westward from Alvarado Boulevard. The brothers laid out a grid of five major thoroughfares, including Wilshire Boulevard running east-west, and Rampart Boulevard, Park View, Carondelet, and Coronado Streets running north-south. Wilshire Boulevard was originally intended to serve as an exclusive residential enclave, and the Wilshire brothers confirmed the character of the area by using their social and political connections to attract prominent Angelenos to Westlake. Early residents of Wilshire Boulevard included Harrison Gray Otis, owner of the Los Angeles Times*, who later bequeathed his property to establish the Otis Art Institute; Arthur Letts, owner of the Broadway Department Store; Chicago grain merchant Hiram Higgins; and Homer Laughlin, founder of the Homer Laughlin China Company.*[15]

As more people began to move to Westlake, residents and developers alike began to campaign for the improvement of the area which now comprises present-day MacArthur Park. Originally developed as Westlake Park, the land occupied a saddle-shaped depression between two ridges and had once been the site of a naturally occurring alkali lake, which was fed by runoff from the highlands to the north.[16] *Over time, a marsh-like ecosystem had developed, supporting waterfowl which had adapted to the alkaline water. However, the lake evaporated during an extended drought in the 1860s, and the marsh became known as the "Dead Sea." The City tried to sell the land at auction but failed to do so when the rock-*

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[15] The portion of Wilshire Boulevard between Alvarado and Figueroa streets was originally a narrow avenue called Orange Street.

[16] "Westlake (MacArthur) Park: How A Neighborhood Dump Became a Civic Treasure." Available at: http://www.kcet.org/updaily/socal_focus/history/la-as-subject/westlake-macarthur-park-how-a-neighborhood-dump-became-a-civic-treasure.html

bottom price of 25 cents per acre failed to attract any interest. Eventually the area became a dumping ground for all sorts of garbage, including household trash and animal carcasses.

Los Angeles Mayor William Workman owned several lots in Westlake and was embarrassed by the unsightly conditions. Workman personally spearheaded an effort to develop the site as a city park and campaigned for donations, which were matched by the City. In 1886, an ordinance was passed dedicating the land as public parkland, and extensive grading and improvements commenced. Albert Hardcastle was hired to design the landscape, and an artificial lake was created. In 1890 Westlake Park—named in reference to its location near the western limits of the city—opened to the public. Westlake Park quickly became a destination for both Angelenos and tourists alike, with lush tropical landscaping and amenities such as buggy paths, boating facilities, a seal pool, and a bandstand which hosted Sunday concerts. The City of Los Angeles changed the name of Westlake Park in 1942 in honor of General Douglas MacArthur.

The development of additional parks throughout the 1880s and 1890s confirmed Westlake's reputation as an affluent and desirable neighborhood. Second Street Park, constructed around 1885 by the Los Angeles Improvement Company, was located at the intersection of present-day Glendale Boulevard and 1st and 2nd Streets. Intended to serve as an enticing attraction to lure visitors—and potential residents—to the newly-developed western suburbs of the city, the Second Street Park also featured a small pond as well as a dancing pavilion, an upscale beer garden, and a small zoo. Second Street Park was eventually overtaken by the development of the nearby City Oil Fields and was later subdivided for residential development after the turn of the 20th century.[17] *Sunset Park (now Lafayette Park) was developed on the western edge of the CPA when Clara Shatto, wife of industrialist and early developer George Shatto, donated a parcel of land to the City on the condition that it be used as a park. The park was later renamed Lafayette Park in 1918 at the urging of local French Heritage groups who wanted to commemorate the Marquis de Lafayette, who fought with the colonists during the American Revolution.*[18]

While Westlake's parks played a critical role in drawing Angelenos westward, transportation also played an important part in the development of the area. The introduction of electric streetcar lines in the 1880s and 1890s provided easy access to the downtown commercial core and made the development of residential neighborhoods in outlying areas to the west possible. During this period, Westlake was crisscrossed by numerous streetcar lines on most of its major roadways. Streetcars along east-west corridors included Temple Street, Beverly Boulevard, 3rd Street, 6th Street, Olympic Boulevard, Pico Boulevard, and Venice Boulevard; north-south streetcar lines included Rampart Boulevard, Alvarado Street, and Glendale Boulevard. Wilshire Boulevard never had a streetcar line, a condition of the boulevard's dedication to the City by the Wilshire family. Additional transportation-related infrastructure in the survey area includes the Beverly Boulevard/1st Street Viaduct, historic ornamental streetlights along several major east-west corridors, and public stairways in the hillside neighborhoods.

In 1892 the discovery of oil deposits in Westlake marked a turning point in the development of the CPA. Edward Laurence Doheny identified the first oil deposits in the City near the

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17 "How L.A. Lost One of its Earliest Parks." Accessed November 2013. Available at: http://www.kcet.org/updaily/socal_focus/history/la-as-subject/second-street-park-las-lost-outdoor-retreat.html

18 Cabrera, Yvette. 25 December 1994. "The Fall of Lafayette Park." *Los Angeles Times*.

base of Crown Hill and later drilled the first successful oil well in the City. Along with his business partner, Charles A. Canfield, Doheny established the Los Angeles City Oil Field, which stretched across Westlake and grew to include 80 wells in the first two years of operation. By 1898, the City Oil Field accounted for 65 percent of the oil production in California. By the end of the 19th century, the field was the largest producer in the world and would become the most influential in the history of California.[19] *Doheny and Canfield's success sparked the petroleum boom which helped fuel much of the early development of Los Angeles, and derricks sprang up throughout the surrounding residential neighborhoods. Many residents, eager to tap into the oil boom, constructed derricks in their yards or purchased additional property to develop smaller, family-operated oil fields. This juxtaposition of oil wells and Victorian-era architecture remains evident in some neighborhoods in the northern portion of the CPA today. Residents of several tracts, however, protested the further construction of derricks in the area; as a result, no oil development took place south of 3rd Street and Ocean Avenue. These restrictions increased the desirability and prestige of the Westlake region.* [20]

The film industry also played an early role in the development of Westlake. In the 1910s, actor Hobart Bosworth established Occidental Studios at 201 N. Occidental Boulevard. The studio hosted such pioneering early filmmakers as Cecil B. DeMille and D. W. Griffith, and today the facility remains one of the oldest continuously operating studios in Los Angeles.

By the turn of the twentieth century, prosperity from the fledgling movie industry as well as the oil industry attracted newly wealthy residents from the emerging service and creative industries.[21] *As residents flocked to Westlake, the demand for housing necessitated greater density in residential development, and the Westlake CPA contains one of the largest concentrations of early twentieth century multi-family residential development in the city. To accommodate the more transient culture of the less established industries as well as to house tourists, a proliferation of one-story bungalow courts, brick apartment houses, and luxury apartment hotels were developed. Extant apartment hotels in the Survey Area include the Bixel House at 625 S. Bixel Street, and the present-day Hotel Lafayette (formerly the Hotel Fulton) at 2731 W. Beverly Boulevard. Apartment houses continued to be constructed well into the 1920s, when the City hit its peak in population growth. Entire blocks of apartments were constructed in the mid-1920s, while more developed areas containing earlier single-family residences were infilled with bungalows courts and apartment buildings.*

As residential development migrated westward in the early 1900s, the more established institutions also relocated to outlying areas. Development in the area began to shift from almost exclusively residential construction to include a more varied mix of religious, institutional, and commercial development. As a result, the CPA contains a large number of examples of early Los Angeles institutions, including the Precious Blood Catholic Church at 440 S. Hoover Street, First Church of Christ, Scientist, and the First Congregational Church

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19 Testa, Stephen. "The Los Angeles City Oil Field: California's First Oil Boom During the Revitalization Period (1875-1900)." Accessed November 2013. Available at: http://www.aegsc.org/chapters/inlandempire/pdf/LOS%20ANGELES%20CITY%20OIL% 20FIELD.pdf

20 City of Los Angeles. 1 May 2009. "Intensive Survey, Westlake Recovery Community Redevelopment Area." Prepared by: LSA Associates, Inc., Los Angeles CA, p. 11.

21 *Ibid.*

facing Lafayette Park.[22] *The Hospital of the Good Samaritan, which began as the Los Angeles Hospital and Home for Invalids in 1885, relocated to 1225 Wilshire Boulevard in 1911. The current building was completed in 1926, making it one of the oldest hospitals remaining in the city of Los Angeles. In 1924, a group of physicians at Good Samaritan partnered to construct an elaborate, 8-story medical office building nearby at 1136 West 6th Street.*

Although outside the Survey Area, several significant examples of institutional development also defined the overall character and development of Westlake. The 1929 Felipe de Neve branch of the Los Angeles Public Library still stands in Lafayette Park. The Mary Andrews Clark Residence was operated by the YWCA for over seven decades at Third Street and Loma Drive. The area was also home to two of the city's most important professional art schools. Otis College of Art and Design was established in 1918 in the former home of Los Angeles Times founder Harrison Gray Otis, making it the first public school of art in Southern California. The Chouinard Art Institute soon followed in 1921.

Westlake, which contained a high concentration of middle- and upper-class residents, was also seen as a particularly desirable development opportunity. Commercial development, which until the turn of the century had been confined primarily to tourism-related commerce such as restaurants, stores, and ice cream parlors, began to increase in the early 1900s in response to the demands of the growing community. By the 1920s, commercial development in the CPA was concentrated primarily along 7th Street, which benefitted from its proximity to the Los Angeles Yellow Car lines, and along the area's other east-west corridors and accompanying streetcar lines. The earliest examples include clusters of 1920s masonry markets and business blocks featuring classical ornamentation. Many extant examples remain, though typically with
altered storefronts.

By the 1930s, the Westlake area was largely built out. However, in the years following World War II, builders responded to the sudden postwar population boom by developing the remaining infill lots with budget apartment buildings, which were typically designed in the "dingbat" style. Extant examples of dingbat apartment houses remain throughout the Survey Area, though many no longer retain the characteristic design elements. Two intact examples are located adjacent to one another at 122 and 128 N. Rampart Street.

Postwar commercial development also shared the street with earlier commercial buildings. Several insurance companies chose to locate their headquarters in Westlake during the 1950s and 1960s, along with other industrial corporations. Most of these buildings were designed by prominent Southern California architectural firms, such as Welton Becket & Associates, Pereira & Luckman, and A. C. Martin & Associates. Two prominent architectural examples are the 1955 Union Oil Center (Unocal), by Pereira & Luckman at 451 S. Beaudry Avenue; and the 1960 American Cement Building, by Daniel, Mann, Johnson and Mendenhall.[23] *Other examples by prominent local architects include the Samaritan Medical Tower, designed in 1964 by A. C. Martin & Associates at 1127 W. Wilshire Boulevard, and the present-day St. Vincent Medical Center at 256 S. Lake Street, constructed in 1952 by Austin, Field & Fry.*

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[22] The First Church of Christ, Scientist and the First Congregational Church are located in the CRA area, which is excluded from the survey area for SurveyLA.

[23] The American Cement Building is located in the CRA area, which is excluded from the survey area for SurveyLA.

The years following World War II brought significant changes to Westlake. The widening of Wilshire and Olympic Boulevards, completed in the 1930s and 1940s, shifted development on the two major thoroughfares from largely residential uses to more commercial construction. Adjacent segments of the Hollywood (101) Freeway and the Harbor (110) Freeway were also completed in the 1950s, allowing Angelenos to bypass Westlake in favor of communities further west.

As transportation construction began to shape the development of the surrounding area, including adjacent neighborhoods such as Bunker Hill and Little Manila, some immigrant business owners relocated their commercial establishments to Westlake. In particular, Asian American businesses and social cultural centers flourished as senior citizens and immigrant families, many of whom had been displaced from Bunker Hill, were also attracted by the low cost of housing and began to settle in the area. Filipino Americans were among the ethnic groups most affected by the postwar development of downtown Los Angeles; the "Little Manila" neighborhood was virtually dissolved by the creation of the downtown Civic Center and the addition of increased government infrastructure.[24] As a result, many Filipinos relocated to the Temple-Beverly corridor during the 1950s and 1960s. As Filipinos began to settle in the Temple Street area, the neighborhood became known as "Philippine Town." The establishment of the Filipino American Cultural Center in 1965 at 1740 W. Temple Street marked the "golden years" of the Filipino American community in the area. The migration of Filipino Americans to the Temple-Beverly area continued throughout the 1970s as a result of the continuing decline of nearby economic corridors, such as Alameda Street. This neighborhood was officially designated as "Historic Filipinotown" by the City of Los Angeles in 2002.

By the late 1960s, the CPA suffered from an aging infrastructure, widespread neglect, and private disinvestment. Senior citizens and immigrant families, many of whom had been displaced from Bunker Hill, were attracted by the low cost of housing and began to settle in the area. In 1971, City planners began to consider Westlake for potential redevelopment as an emerging urban center. Over the next several years, attempts were made to alleviate the demand for better and more extensive housing facilities for seniors and low-income families by adopting provisions in the 1990 General Plan that encouraged greater density in residential parcels. This provision may have inadvertently led to the widespread demolition of smaller, early apartment houses in favor of higher-capacity, multi-parcel apartment complexes.[25] However, immigrant families continued to be drawn to the area due to the low cost of housing and the proximity to downtown Los Angeles, and Westlake soon established itself as a multicultural neighborhood, an identity which became central to the character of Westlake throughout the 1970s and 1980s. Along with Asian Americans, immigrants from Mexico and Central America began to settle in the area, and by the late 1970s there was an established Latino presence within the community. This newfound cultural identity made Westlake a critical entry point for political refugees fleeing poverty, civil war, and violence in their home countries, particularly Mexico, El Salvador, Guatemala, Honduras, and Nicaragua.[26]

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[24] "History of the Filipino American Community of Los Angeles (FACLA)." http://newfacla.org/?page_id=32 (accessed January 2014).

[25] LSA Associates, 21.

[26] Ibid.

Today, the Westlake Survey Area includes a wide range of property types reflecting the area's rich development history. Properties include single- and multi-family dwellings as well as commercial, institutional, religious, and civic properties. The CPA also has two large city parks, giving it a unique quality. Overall, property types remain from most of the significant eras of the CPA's development, representing a variety of historic contexts and themes.

9.1 418 N. FIRMIN STREET

Located at 418 N. Firmin Street, Los Angeles, California (APN 5160-022-012), the subject property is located three lots south of W. Temple Street with frontage along N. Firmin Street. It is currently bounded by an empty lot to the northeast, multi-family residential units to the southeast and southwest; and single-family residences to the northwest. The 1,326-square-foot Victorian cottage built in 1890 is laid out in a rectangular plan. The building has been substantially altered with an apparent pop-up or modified dormer; rough textured stucco; anodized aluminum windows which alter the window openings; and the porch appears to have been altered and clad with Mexican tile (Figure 9, *General View of 418 N. Firmin Street*).



Figure 9. General View of 418 N. Firmin Street
SOURCE: *Sapphos Environmental, Inc., 2017*

Other details were not discernable from the public right-of-way at the time of survey in 2018 because the building has been mothballed and the subject property has been secured against vandals (Figure 10, *View of 418 N. Firmin Street* [*Secondary Façade*]).



Figure 10. View of 418 N. Firmin Street (Secondary Façade)
SOURCE: *Sapphos Environmental, Inc., 2018*

Garage

The 1940 detached garage measures approximately 400 square feet and is located in the rear of the parcel. The garage features a pyramidal roof with exposed rafter tails, rough textured stucco, and a metal roll up door. The garage appears to be substantially altered by the stucco and the newer garage door (Figure 11, *View of 418 N. Firmin Street* [*Garage*]).



Figure 11. View of 418 N. Firmin Street (Garage)
SOURCE: *Sapphos Environmental, Inc., 2018*

9.2 430 N. FIRMIN STREET

Description of 430 N. Firmin Street

Located at 430 N. Firmin Street, Los Angeles, California (APN 516-022-006), the subject property is located one lot south of Temple Street with frontage along N. Firmin Street. It is currently bounded by an empty lot to the southwest and developed parcels on the northeast and southeast sides. The 1,490-square-foot, wood-framed and clad dwelling is a Victorian cottage built in 1895 and laid out in a rectangular plan and is oriented northeast to southeast. Its site includes a small terraced and landscaped front yard accessed by a set of four period-concrete stairs and walkway approach. The building is designed with low 1-story massing with numerous glazed dormers on its hipped roof, which features boxed overhanging eaves. The building was reroofed with composition shingles in 2016,[27] although the original roof form appears to be extant. The walls are clad in horizontal clapboard, framed by simple horizontal crown moldings, vertical corner moldings, and a foundation skirted by a horizontal board to mimic the crown moldings. Many of the windows were replaced at an unknown date although the original openings were retained. An integrated porch is located within the northwestern end of the front façade, while projecting bays are located on both sides. A substantially altered garage is located at the rear of the site (Figure 12, *General View of 430 N. Firmin Street from the Northwest*).



Figure 12. General View of 430 N. Firmin Street from the Northwest
SOURCE: *Sapphos Environmental, Inc., 2017*

[27] City of Los Angeles. Issued January 19, 2016. Building Permit No. 16016-90000-01151.

Primary (Northwestern) Façade

The northwestern façade of 430 N. Firmin Street is three bays wide, with painted concrete stairs leading to a central entrance located within an integrated porch placed within the northern two bays. The southern-most bay features a two-sided oriel window. That window, like all of the windows located on the visible exterior walls, has had its sash replaced by double-hung vinyl windows with false muntins; however, two windows located within the deeply recessed porch are not readily visible to the public but contain original sash that can serve as models for possible future window replacement. Above the first floor, two small, symmetrically balanced dormers contain original square multi-light sash with triple stretched diamond panes mounted within flat casings that feature stretched lintels (Figure 13, *View of the Primary* [*Northwestern*] *and Secondary* [*Southwestern*] *Façades*; Figure 14, *View of the North End of the Primary* [*Northwestern*] *Façade, 430 N. Firmin Street*; Figure 15, *Detail of Original Window*).



Figure 13. View of the Primary (Northwestern) and Secondary (Southwestern) Façades
SOURCE: *Sapphos Environmental, Inc., 2017*



Figure 14. View of the North End of the Primary (Northwestern) Façade, 430 N. Firmin Street
SOURCE: *Sapphos Environmental, Inc., 2017*



Figure 15. Detail of Original Window
SOURCE: *Sapphos Environmental, Inc., 2017*

Secondary (Southwestern) Façade

The secondary southwestern façade does not have second floor dormers, but instead features a three sided and windowed canted and gabled bay. The gable features horizontal slat vents. Double-hung windows are also located at both ends of this wall. A formalized treatment for the slightly recessed rear entrance is manifested along the eastern end of this wall by a vertical opening framed by flat

moldings and a boxed roof support post (Figure 16, *View of Secondary* [*Southwestern*] *Façade, 430 N. Firmin Street*).



Figure 16. View of Secondary (Southwestern) Façade, 430 N. Firmin Street
SOURCE: *Sapphos Environmental, Inc., 2017*

Secondary (Northeastern) Façade

The secondary (northeastern) façade also featured a projecting bay; in this case, one that is orthogonal with paired double-hung windows. At the western end of this façade, the porch opening features a simple boxed column to support the roof above, while the eastern end appears from the public right-of-way to contain at least three more double-hung windows. Above, two dormers contain simple single-glazed square casement sash (Figure 17, *Secondary* [*Northeastern*] *Façade, 430 N. Firmin Street*).



Figure 17. Secondary (Northeastern) Façade, 430 N. Firmin Street
SOURCE: *Sapphos Environmental, Inc., 2017*

Southeastern Façade

The rear, southeastern, façade continues the wrap-around entrance surrounding its south corner, balanced by a short projecting hipped wing extension across the other two bays. This small wing features different clapboards which suggest it may be a later, if well-integrated, addition. It utilizes its own rear door, concrete stairway, and short, paired window openings, while the earlier rear access at the south end employs a wider and more formal set of concrete stairs under its pedimented entrance (Figure 18, *Southeastern Façade, 430 N. Firmin Street*).



Figure 18. Southeastern Façade, 430 N. Firmin Street
SOURCE: *Sapphos Environmental, Inc., 2017*

Garage

The 1925 garage appears to have been altered with corrugated metal siding to match the intact original corrugated metal roofing.[28] It also has received a modern metal door. Its wood–frame construction, visible by its exposed rafter ends, appears intact (Figure 19, *Garage, 430 N. Firmin Street*).

[28] City of Los Angeles. Issued November 23, 1922. Building Permit No. 42784.



Figure 19. Garage, 430 N. Firmin Street
SOURCE: *Sapphos Environmental, Inc., 2017*

10.1 GENERAL PROPERTY HISTORY

Henry Hancock's 1857 Survey Map of the City recorded Block 39, which was to the west of the city's center.[29] The subject properties were historically located on Block 39, Lot 1, within Byram's Subdivision, later known as Lot 8 and now as Lot 7 (Figure 20, *Earliest known Map showing Block 39, 1857*).

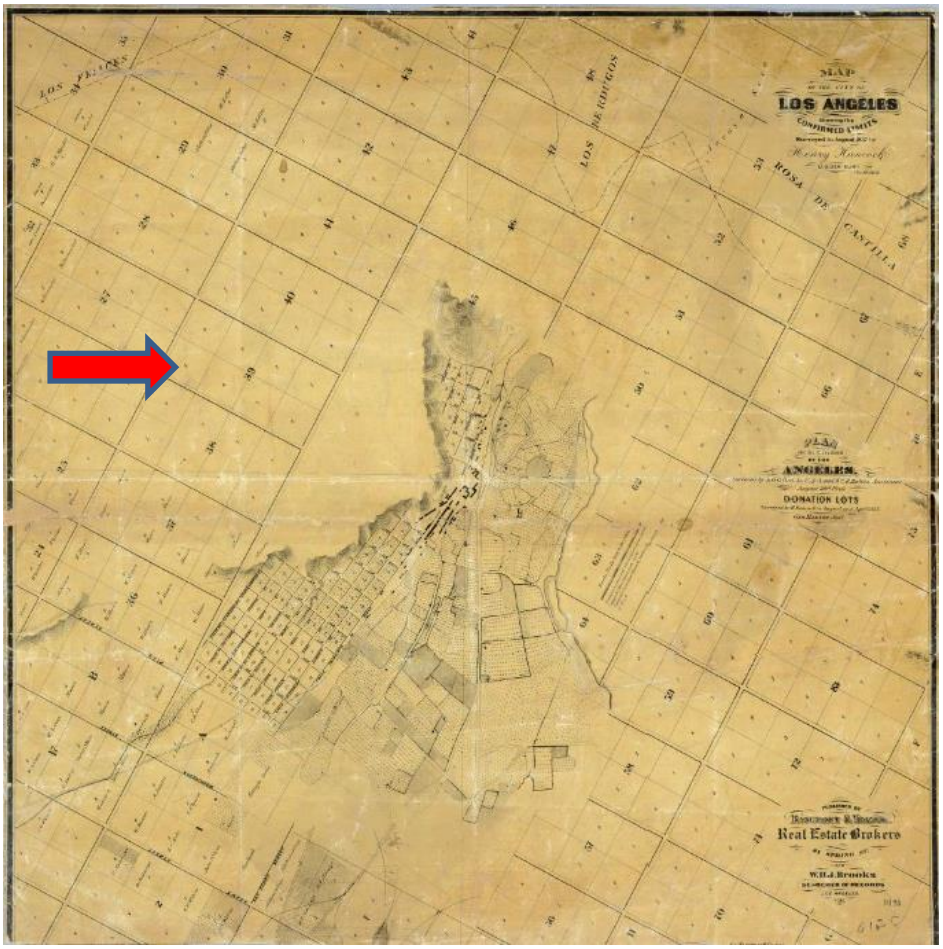


Figure 20. Earliest known Map showing Block 39, 1857
SOURCE: *David Rumsey Map Collection*

[29] Hancock, Henry. 1857 Map of the City of Los Angeles. David Rumsey Map Collection. Available at: http://www.davidrumsey.com

10.2 PERMIT HISTORY

418 N. Firmin Street

County Assessor's documents indicate the current dwelling located at 418 N. Firmin Street was constructed in 1890[30] during the period that Mary S. and George S. Robinson owned the property. The second improvement was a stucco-clad garage, added in 1940 by owner Margherita Ferrero.[31] Also in 1940, a permit was issued for the following alterations to the primary residence:

- Demolish two rooms on the rear of the building to be replaced by an addition
- New foundation and underpinning
- New stucco exterior[32]

No additional permits have been issued for this property (Figure 21, *Current Footprint showing Locations of Subject Building and Garage*).



Figure 21. Current Footprint showing Locations of Subject Building and Garage
SOURCE: *Los Angeles County Assessor, Property Assessment Information System, August 13, 2018*

430 N. Firmin Street

County Assessor's documents indicate the current dwelling located at 430 N. Firmin Street was constructed in 1895[33] during the period that Leo Longely owned the subject property. The second improvement was a garage, added in 1925 by second owner Harry R. Jones. The permit for that garage suggests that it was originally constructed with a galvanized corrugated metal roof, as it retains today (Figure 22, *Current Footprint showing Locations of Subject Building and Garage*).[34]

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30 County of Los Angeles, Property Assessment Information System, accessed October 2, 2018.

31 City of Los Angeles. Issued December 16, 2910. Building Permit No. 50337.

32 City of Los Angeles. Issued December 16, 1940. Building Permit No. 50343.

33 County of Los Angeles, Property Assessment Information System, accessed October 2, 2018.

34 City of Los Angeles. Issued November 23, 1922. Building Permit No. 42784.



Figure 22. Current Footprint showing Locations of Subject Building and Garage
SOURCE: *Los Angeles County Assessor, Property Assessment Information System, June 27, 2017*

10.3 OWNERSHIP HISTORY

418 N. Firmin Street

Based upon a review of the Los Angeles County Assessor's parcel data, the subject property was developed prior to 1900. The lot changed ownership several times between 1900 and 2018 (Table 3, *Assessor Data, 418 N. Firmin Street*).

TABLE 3
ASSESSOR DATA, 418 N. FIRMIN STREET

Map Book No.	Page No.	Date	Name
37	18	1900–1909	Mary S. and George S. Robinson
37	19	1910–1919	Mary S. and George S. Robinson
37	22	1919–1925	Mary S. Robinson Justin Ducousso
37	25	1925–1932	Justin Ducousso Margherita Ferrero
37	25	1932–1947	Margherita Ferrero Margherita Borgiovanni Margherita Ferrero
37	25	1947–1951	Margherita Ferrero
35	30	1952–1956	Margherita Ferrero Louie Ferrero
35	30	1957–1961	Louie Ferrero
*		1964	Thomas Guiterrez
*		2002	Luke and Elizabeth Dever
*		2013	JL Sunset LLC
*		2014	Ho Ching Wong
*		2018	Firmin Court LP

NOTE: * *Denotes information obtained from the Los Angeles County Assessor's public counter.*

The remainder of the historic Assessor records was not available; however, the current owner of the property is Firmin Court LP.

George S. Robinson worked in real estate in 1912,[35] and no additional information was available regarding this person. Margherita Ferrero, a native of Italy, immigrated to the United States in 1905. She was a divorced home maker who did not appear to work outside the home.[36] Louie Ferrero was Margherita's son and no additional information was available pertaining to him. No information pertaining to Mary S. Robinson, Thomas Guiterrez, Luke and Elizabeth Dever, JL Sunset LLC, and Ho Ching Wong was available.

430 N. Firmin Street

Based upon a review of the Los Angeles County Assessor's parcel data, the subject property was developed prior to 1900. The lot changed ownership several times between 1900 and 2018 (Table 4, *Assessor Data, 430 N. Firmin Street*).

TABLE 4
ASSESSOR DATA, 430 N. FIRMIN STREET

Map Book No.	Page No.	Date	Name
37	18	1900–1909	Leo Longley
37	19	1910–1919	Leo Longley Harry R. Jones (year unknown)
37	22	1919–1925	Harry R. Jones
37	25	1925–1932	Harry R. Jones
37	25	1932–1947	Harry R. Jones
37	25	1948–1952	Harry R. Jones
35	30	1952–1956	Harry R. Jones
35	30	1957–1961	Harry R. Jones Aileen Boardman (1958) Edmund P. McKanna (year unknown)
Assessor Data		1978	Jesusa N. Juatco Trust
Assessor Data		1990	Jesusa N. Juatco Trust
Assessor Data		2014	Jesusa N. Juatco Trust
**		2016	Jesusa N. Juatco Trust
*		2018	Firmin Court LP

NOTE: ** *Denotes information obtained from City building permit.*

The remainder of the historic Assessor records was not available; however, the current owner of the subject property is Firmin Court LP.

The first owner of Lot 1 at 430 N. Firmin Street was Leo Longley. From approximately 1880 to the turn of the 20th century, Longley purchased real estate in Los Angeles. His purchase date of Lot 1 is unknown, but in 1886 he obtained Lots 2, 3, and 7 to the north and east of Lot 1 and along Temple Street in the Byram's Subdivision of Block 39.[37] Newspaper articles of the time suggest Longely was involved in a number of other profit-making ventures involving real estate during this period,

[35] Ancestry.com. 2011. *U.S. City Directories, 1822–1995* [database on-line]. Provo, UT: Ancestry.com Operations, Inc.

[36] Year: *1930*; Census Place: *Los Angeles, Los Angeles, California*; Page: *14A*; Enumeration District: *0708*; FHL microfilm: *2339898*

[37] Real Estate Transactions. 27 July 1886; 25 April 1889. *Los Angeles Times*.

including purchases, sales, and lawsuits against tenants and buyers.[38] Because of Longley's proclivity for lawsuits and his political ambitions in the early years of the 20th century,[39] it is possible that the Leo Longley who owned 430 N. Firmin Street in Los Angeles was the same Leo Longley who was eventually "…appointed a special commissioner" to the County of Los Angeles in 1910 and filed suit at length against May Rindge[40] as part of an initial volley leading to *Rindge Co. vs. the County of Los Angeles*. This legal decision allowed the legal condemnation of much of Rancho Malibu for construction of the Pacific Coast Highway.[41] Although Mr. Longley owned 430 N. Firmin Street, City directories from the period suggest he never lived there.

Harry R. Jones, originally of Missouri, lived in a house he owned and occupied with his wife Jessie on Temple Street in Westlake[42] until purchasing 430 N. Firmin Street from Longley sometime in the 1900s, when Jones was approximately 34 years old. Jones was a bookkeeper[43] who remained the owner of the 430 N. Firmin Street until 1958 when he sold it to Aileen Boardman.[44] There is no significant information available on Boardman or subsequent owner Edmund P. McKenna.

10.4 USE HISTORY

418 N. Firmin Street

The subject property was initially developed as a single-family residence with a detached garage. The subject property is currently vacant, mothballed, and secured against vandals.

430 N. Firmin Street

The subject property was initially developed as a single-family residence with a detached garage. The subject property is currently vacant, mothballed, and secured against vandals.

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38 *Los Angeles Times*. 13 September 1890 and various issues from 1886 to 1905.

39 *Los Angeles Times*. 13 September 1890 and various issues from 1886 to 1905.

40 "To Preserve Principality. Another Hearing in Malibu Road Case." 3 November 1910. *Los Angeles Times*, p. 1.

41 Randall, David K. 2 March 2016. *The King and Queen of Malibu: The True Story of the Battle for Paradise*. New York, NY: W. W. Norton & Company.

42 U.S. Census Los Angeles, 1910.

43 U.S. Census Los Angeles, 1940.

44 Los Angeles County Assessor. 1957–61. Map Book 35, p. 30.

EVALUATION CRITERIA: Early Residential Development: Early Single-Family and Multi-Family Residential Development[45]

Summary Statement of Significance: Resources significant within the theme of early residential development include single- and multi-family residences. Properties evaluated under this theme may be significant in the areas of Settlement and/or Community Planning and Development for their association with the earliest periods of residential development in Los Angeles. Although not required, some resource may also be significant examples of their respective styles. Multi-family properties may also represent significant examples of multi-family building types.

Period of Significance: 1880–1930

Period of Significance Justification: Broadly covers the earliest periods of residential development within the present-day boundaries of the city of Los Angeles and following the city's incorporation in 1850.

Geographic Location: Citywide

Area(s) of Significance: Settlement; Community Planning and Development

Criteria: NR: A CR: 1 Local: 1

Associated Property Types: Residential: Single-Family Residence/Multi-Family Residence

Property Type Description: Significant property types are those representing important periods of early residential development in neighborhoods of Los Angeles.

Property Type Significance: See Summary Statement of Significance above.

Eligibility Standards:

- Dates from the period of significance
- Represents a very early period of settlement/residential development in a neighborhood or community
- Is a rare surviving and intact example of the type in the neighborhood or community

[45] City of Los Angeles. September 2017. *Los Angeles Citywide Historic Context Statement; Context: Residential Development and Suburbanization; Theme: Early Residential Development, 1880–1930.* Available at: https://preservation.lacity.org/sites/default/files/EarlyResidentialDevelopment_1880-1930_0.pdf

Character-Defining / Associative Features:

- Retains most of the essential physical and character defining features form the period of significance
- Has an important association with early settlement or residential development within a neighborhood or community
- May also be significant for its association with important early settlers
- May be within an area later subdivided and built out
- Often site in a prominent locations

Integrity Considerations:

- Should retain integrity of Location, Feeling, Design, and Association
- Some original materials may be altered or removed
    - For very early examples, which are increasingly rare, there may be a greater degree of alterations or few extant features
        - Setting may have changed (surrounding buildings and land uses)

SECTION 12
EVALUATION OF ELIGIBILITY

12.1 NATIONAL REGISTER OF HISTORIC PLACES

418 N. Firmin Street

National Register Criterion A

The subject property was constructed prior to the 1890s oil boom but was developed during the early suburban expansion radiating away from the City's downtown. This early suburban development is a historic trend that made a significant contribution to the development of the community. However, as described in Section 9, the property has been substantially altered and does not retain sufficient integrity of feeling, design, and association to convey this association. Additionally, neighboring altered buildings and infill construction have further compromised the property's integrity of feeling and association. Therefore, the subject property is ineligible for the National Register under Criterion A.

National Register Criterion B

The subject property does not possess an association with persons significant in our past, as no one associated with that address can be documented to have contributed to local, state, or national history to an extent significant enough to warrant designation. The property is not known to be associated with important early settlers. Therefore, the subject property is ineligible for the National Register under Criterion B.

National Register Criterion C

The subject property does not possess early and distinctive characteristics of a type and period of construction in the Westlake CPA of the City due to alterations. Additionally, it is not an especially unique or high-style cottage and does not appear to be the work of a master architect. Lastly, the building has been substantially altered as described above and is not sited in a prominent location. Therefore, the subject property is ineligible for the National Register under Criterion C.

National Register Criterion D

The subject property is ineligible for the National under Criterion D, as it is not anticipated to yield, or may be likely to yield, information important in prehistory or history.

Statement of Integrity

The subject property, located at 418 N. Firmin Street, was evaluated against the seven aspects of integrity as outlined in the California Code of Regulations (Section 4852 [C]),[46] and described in the National Register Program. 418 N. Firmin has been substantially altered, and does not retain integrity of design, materials, workmanship, feeling, and association. The building has not been moved and retains integrity of location. Lastly, neighboring altered buildings and infill construction have further compromised the property's integrity of feeling, association, and setting.

[46] California Office of Historic Preservation. 1999. *California State Law and Historic Preservation*, 4853 (c), p. 66.

430 N. Firmin Street

National Register Criterion A

While the Westlake area is well known for its historic middle-class (upper middle-class in today's terms) development, the subject property was among the development of 1-story cottages and multi-family apartment buildings built to house middle-class worker families on the northern edge of the area, and at the foot of the Angelino Heights neighborhood (the City's first HPOZ). The distinction in the size and modest Victorian character of the primary residence at the subject property compared to the grand, high-style, 2- and 3-story homes upon the prestigious hill reflects this difference in socio-economic status. 430 N. Firmin Street is a rare and generally unaltered example of a middle-class worker dwelling from its pre-turn of the 20th century period of significance. 430 N. Firmin Street is comparable to examples of single-family properties found in the Westlake CPA as individually eligible under Criterion A for the National Register, including 212 N. Belmont Avenue and 248 N. Belmont Avenue.[47]

Among other buildings on Firmin Street, the property at 430 N. Firmin Street appears to be the most intact and in the best condition, with a construction date of 1895. Although many of the windows have been replaced with modern vinyl units within existing openings, original windows remain and could inform replica replacement units in order to restore the building. Additionally, the original window openings are intact and have not been altered. The roof material was replaced in 2016; however, the form of the roof is extant.

430 N. Firmin Street is eligible for the National Register on the local level under Criterion A, as a rare intact residence that reflects the early residential development in the neighborhoods of Los Angeles under the SurveyLA Residential Development and Suburbanization/Early Residential Development, 1880–1930 theme. Oil was first discovered in the City in 1892, and the discovery resulted in economic and real estate booms. Early development in the City centered around downtown and suburban expansion radiated outward in all directions. The subject properties are located within the Westlake CPA, which is one of the earliest residential suburbs in the history of the City. The primary residence at 430 N. Firmin Street is a modest cottage that represents this early period of suburban expansion which directly resulted from the discovery of oil. Therefore, the primary residence located at 430 N. Firmin Street reflects the patterns of community planning and development during the early suburban development of the City. The period of significance is 1895, the year the building was constructed, which broadly covers the earliest periods of residential development within the present-day boundaries of the City's and following the City's incorporation in 1850. As described in Section 9, the building is relatively unaltered and generally retains integrity of design, materials, and workmanship. However, neighboring altered buildings and infill construction adjacent to the subject property have compromised the property's integrity of setting. Although some windows have been inappropriately replaced, the original window openings were retained. Two original windows retain original wood sash, and period-appropriate replacement windows can be reinstalled. The garage at 430 N. Firmin Street is non-contributing to the subject property due to loss of integrity and is, therefore, ineligible for listing in the National Register under this criterion.

[47] City of Los Angeles Department of City Planning, Office of Historic Resources, Los Angeles, CA. April 2014. "SurveyLA Historic Resources Survey Report, Westlake Community Plan Area." Prepared by: Architectural Resources Group, Inc., Pasadena, CA. pp. 2–3. Available at: http://preservation.lacity.org/sites/default/files/Westlake%20Individual%20Resources_0.pdf

National Register Criterion B

The subject property does not possess an association with persons significant in our past, as no one associated with that address, including Leo Longley, can be documented to have contributed to local, state, or national history to an extent significant enough to warrant designation. Additionally, the property is not known to be associated with an important early settler. Therefore, the subject property is ineligible for listing in the National Register under Criterion B.

National Register Criterion C

The subject property is a low-style example of a Victorian cottage and does not possess unique or distinctive architectural design elements associated with this property type. The primary residence does not embody the distinctive characteristics of a type, period, or method construction. The primary residence has minimal design embellishment and does not possess high artistic value. The original building permit is not available, and the original architect, if any, is not known. Therefore, the subject property is not the work of a master. For these reasons, the subject property is not eligible for listing in the National Register under Criterion C.

National Register Criterion D

The subject property is ineligible for the National under Criterion D, as it is not anticipated to yield, or may be likely to yield, information important in prehistory or history.

Statement of Integrity for 430 N. Firmin Street

The subject property, located at 430 N. Firmin Street, was evaluated against the seven aspects of integrity as outlined in the California Code of Regulations (Section 4852 [C]),[48] and described in the National Register Program. As described in Section 9, the primary residence is generally unaltered, with the exception of the wood shake roof was replaced with composition shingles, most windows were removed although the original window openings remain, and a small addition may have been constructed on the rear of the building at an unknown date. The property generally retains integrity of workmanship, design, materials, feeling, association, and location, and retains sufficient integrity to convey an association with the early suburban residential patterns radiating from the City's historic core. However, neighboring altered buildings and infill construction have compromised the property's integrity of setting.

12.2 CALIFORNIA REGISTER OF HISTORICAL RESOURCES

The California Register eligibility criteria mirror those of the National Register. Therefore, 418 N. Firmin Street is ineligible for the California Register for the same reasons outlined above. However, the primary residence located at 430 N. Firmin Street is eligible for the California Register for the same reasons outlined above.

12.3 CITY OF LOS ANGELES HISTORIC-CULTURAL MONUMENTS

Similarly, the HCM criteria are similar to the National Register and California Register criteria. Therefore, 418 N. Firmin Street is ineligible for designation as an HCM for the same reasons outlined

[48] California Office of Historic Preservation. 1999. *California State Law and Historic Preservation*, 4853 (c), p. 66.

above. However, the primary residence located at 430 N. Firmin Street is eligible for designation as an HCM for the same reasons outlined above (Attachment A, *DPR 523 Series Forms)*.

12.4 HPOZ ELIGIBILITY

Within the Westlake CPA, few of the City's HCM designations are north of 6th Street, and none were north of Beverly Boulevard, an area that still contains blocks of late-19th and early-20th century worker housing, according to SurveyLA's 2014 *Historic Resources Survey Report*,[49] and LSA's *Intensive Survey for the Community Redevelopment Area*.[50]

The neighborhood Firmin Street is located in within the Westlake CPA is the subject of infill redevelopment. Additionally, many of the neighboring buildings on Firmin Street and in the general area have been altered with replacement windows, secondary coatings of stucco, and inappropriate additions. Based on the style of architecture represented, the number of buildings altered from their circa 1900 appearances, and the number of buildings that appear to have been constructed or substantially renovated over the course of time, the neighborhood does not possess sufficient integrity to form a HPOZ.

[49] City of Los Angeles Department of City Planning, Office of Historic Resources, Los Angeles, CA. April 2014. "SurveyLA Historic Resources Survey Report, Westlake Community Plan Area." Prepared by: Architectural Resources Group, Inc., Pasadena, CA.

[50] City of Los Angeles Department of City Planning, Office of Historic Resources, Los Angeles, CA. 15 June 2009. "Intensive Survey, Westlake Recovery Redevelopment Area." Prepared by: LSA Associates, Inc., Riverside, CA Available at: http://preservation.lacity.org/sites/default/files/Westlake_RRA_Report.pdf

SECTION 13
IMPACT ANALYSIS

13.1 PROJECT REVIEW

The primary residence located at 430 N. Firmin Street was found eligible for listing in the National Register on the local level, the California Register, and for designation as an HCM. Therefore, the primary residence located at 430 N. Firmin Street is treated as a historical resource pursuant to Section 15064.5(a) of the CEQA Guidelines. The project as proposed would demolish the existing buildings located at 418 and 430 N. Firmin Street. In order to mitigate impacts to the historical resource, the project would relocate the primary residence to a vacant parcel located at 115 E. Avenue 35, Los Angeles, California (the "receiver site"). The building will continue to be used for residential purposes. The receiver site is located within the Lincoln Heights neighborhood of the Northeast Los Angeles CPA. The receiver site is located to the east of 430 N. Firmin Street and northeast of the City's historic core (downtown). The receiver site is located between 107 E. Avenue 35, constructed in 1895, and 121 E. Avenue 35, constructed in 1894, across the street to the north of the Hillside Elementary School and abuts the southern boundary of Heritage Square Park and Museum. Neighboring residences are 1-story Victorian cottages and Craftsman style single- and multi-family residences. The style and age of the buildings in the Lincoln Heights neighborhood are comparable to the style and age of buildings in the Firmin Street neighborhood. The Lincoln Heights neighborhood also experienced suburban development as a result of the 1892 discovery of oil, and many of the buildings were constructed in similar styles during the same time period as the buildings in the Firmin Street neighborhood. Relocating the building to Lincoln Heights would not destroy associations with the historic event of early residential development within the City because this neighborhood experienced the same suburban development that radiated from the historic core, or downtown, Los Angeles during the 1890s. The primary residence would continue to be used as a single-family residence. Therefore, the proposed receiver site would allow the primary residence to continue to convey an association with this historic event and is an appropriate location to move the building.

To minimize impacts related to relocation of the historical resource, the primary residence of the property located at 430 N. Firmin Street shall be relocated by a qualified building moving company with experience moving historic wood-frame buildings. The building shall be moved and stabilized in accordance with the U.S. Department of the Interior, Heritage Conservation and Recreation Service, Technical Preservation Services Division's *Moving Historic Buildings* to ensure the successful relocation of the building that will not result in red tagging and subsequent demolition of the historical resource. The building shall be restored for habitation following the relocation pursuant to Standards, as discussed below. Therefore, the primary residence will continue to be eligible for listing in the National Register on the local level pursuant to Criteria Consideration B: Moved Properties, the California Register, and for designation as an HCM.

13.2 STANDARDS REVIEW

According to Section 15064.5(b)(3) of the CEQA Guidelines, projects that comply with the Standards are generally considered mitigated to a level of less than significant (Section 15064.5(b)(3) of the CEQA Guidelines).

The project was reviewed against the four Standards for Rehabilitation that most apply regarding the impact imposed on character-defining features and resource integrity by a relocation project. Those Standards include:

2. *The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be minimized as much as possible.*

3. *Each property will be recognized as a physical record of its time, place and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.*

9. *New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials, features, size, scale, and proportion, and massing to protect the integrity of the property and its environment.*

10. *New additions and adjacent new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.*

The garage is not a contributing feature of the property located at 430 N. Firmin Street and is not considered to be a historical resource pursuant to Section 15064.5(a) of the CEQA Guidelines. Therefore, demolition of the garage would not result in a substantial adverse change to a historical resource as defined in Section 15064.5(b) of the CEQA Guidelines.

The building will be relocated to 115 E. Avenue 35, Los Angeles, California. Moving the building will require removal of the existing foundation and the insertion of cross-bracing to maintain the building's structure integrity. The primary residence does not contribute to a potential historic district; therefore, the change in setting would have minimal impact on the character of the historical resource. The exterior of the building will retain its general appearance and will be restored as a result of this project. Restoration will not result in the addition of conjectural elements creating a false sense of history. The new foundation for the relocated building will be compatible with the existing foundation in terms of height, materials, and skirting. Relocation of the primary residence located at 430 N. Firmin Street may result in a substantial adverse change to a historical resource; however, the following management recommendations are intended to ensure compliance with the Standards in order to mitigate potential impacts to this historical resource to a level of less than significant.

Management Recommendations

Mitigation Measures

A Relocation and Rehabilitation Plan (Plan) to relocate the building to 115 East Avenue 35, Los Angeles, California ("Avenue 35 Site") shall be commissioned by the applicant and developed by a qualified historic preservation consultant. The Plan shall incorporate to the extent feasible the relocation methodology recommended by the National Park Service (NPS),

which is outlined in the booklet entitled "Moving Historic Buildings," by John Obed Curtis (1979). The Plan shall include an assessment of the house in its current condition and location by an experienced architect or engineer and actions that should be taken to minimize the physical impact, if any, on relocating the house to the final site. The Plan shall focus on preservation of the house in its current condition to the extent practicable.

Once at the Avenue 35 Site, the house should be sited in a manner as similar as reasonably possible to its historic setting and should retain the same relationship to grade to the extent feasible. Specifically, the new foundation should not be left exposed but should offer similar coverage like the existing wood skirting. Additional exposure or additional skirting should not be employed as a method to raise or lower the building.

In addition, a plaque describing the historical significance of the original location shall be placed in a visible location on the house. The removal, relocation and rehabilitation process shall be monitored by a qualified historic preservation consultant at key intervals to ensure conformance with the NPS methodology and the Standards. The preservation consultant shall also be available to provide technical expertise to reduce potential impacts to the house.

The moving company will have demonstrated experience with moving historic buildings in a manner that meets the Standards.

With the implementation of the management recommendations, the proposed relocation of the primary residence would comply with the Standards and impacts to the historical resource would be considered mitigated to the level of less than significant.

Based upon research and analysis, 418 N. Firmin Street has been substantially altered and does not retain sufficient integrity to merit listing in the National Register, California Register, for designation as an HCM, and would not contribute to a potential HPOZ. Therefore, 418 N. Firmin Street is not a historical resource pursuant to Section 15064.5(a) of the CEQA Guidelines.

The garage located at 430 N. Firmin Street does not possess historic or architectural merit, does not possesses integrity, and is not a historical resource pursuant to Section 15064.5(a) of the CEQA Guidelines. The primary residence located at 430 N. Firmin Street in the Westlake CPA of the City, is eligible for the National Register, the California Register, and as an HCM under Criteria A/1/1 as a rare intact building that reflects the early residential development in the neighborhoods of the City under the SurveyLA Residential Development and Suburbanization/Early Residential Development, 1880–1930 theme. Because the dwelling on the subject property located at 430 N. Firmin Street is eligible for listing in the National and California Registers and is eligible for designation as an HCM, the subject property is considered to be a historical resource pursuant to Section 15064.5(a) of the CEQA Guidelines. The project would relocate the primary residence to an appropriate receiver site in a manner that meets the Standards. Therefore, impacts to the historical resource are considered mitigated to the level of less than significant and the project would not result in a substantial adverse change to a historical resource.

Conclusion

With the implementation of the management recommendations, the project will comply with the Standards. Pursuant to Section 15064.5(b)(3), projects that meet the Standards shall be considered as mitigated to a level of less than significant impact on the historical resource. Therefore, the proposed project would not result in a substantial adverse change to a historical resource as defined in Section 15064.5(b) of the CEQA Guidelines.

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ATTACHMENT A

State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION **PRIMARY RECORD**	Primary # HRI # Trinomial NRHP Status Code: 6Z
Other Listings Review Code	Reviewer Date

Page 1 **of** 6 ***Resource Name or #** (Assigned by recorder)**:** 418 N. Firmin Street

P1. Other Identifier: None

***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted**

***a. County:** Los Angeles **and** (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** Hollywood **Date**: 1991 **T**1S**; R**14W**;__of__of Sec** 11;__**B.M.**

c. Address: 418 N. Firmin Street **City:** Los Angeles **Zip:** 90004

d. UTM (Give more than one for large and/or linear resources) **Zone:** ___, _____ mE/ _____ mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate): APN: 516-022-012

***P3a. Description** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries.

Located at 418 N. Firmin Street, Los Angeles, California (APN 5160-022-012), the subject property is located three lots south of W. Temple Street with frontage along N. Firmin Street. It is currently bounded by an empty lot to the northeast, multi-family residential units to the southeast and southwest; and single-family residences to the northwest. The 1,326-square-foot Victorian cottage built in 1890 is laid out in a rectangular plan. The building has been substantially altered with an apparent pop-up or modified dormer; rough textured stucco; anodized aluminum windows which alter the window openings; and the porch appears to have been altered and clad with Mexican tile *(See Continuation Sheet Page 4)*

***P3b. Resource Attributes** (List attributes and codes)**:** HP2 Single-Family Residence

***P4. Resources Present:** ☒Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.) See Continuation Sheet page 5.



P5b. Description of Photo (view, date, accession #): July 18, 2017; Facing southeast.

***P6. Date Constructed/Age and Source:**
☒Historic ☐Prehistoric ☐Both

***P7. Owner and Address:**
Firmin Court LP

***P8. Recorded by** (Name, affiliation, and address): Donald Faxon
Sapphos Environmental, Inc.
430 N. Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:** July 18, 2017

***P10. Survey Type** (Describe)**:**
Intensive

***P11. Report Citation** (Cite survey report and other sources, or enter "none")**:** Sapphos Environmental, Inc. 2018. Historic Resource Assessment for 418, 426, and 430 N. Firmin Street, Los Angeles, California.

Attachments: ☐ NONE ☒ Location Map ☐ Sketch Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder): 418 N. Firmin Street ***NRHP Status Code:** 6Z

B1. Historic Name: 418 N. Firmin Street
B2. Common Name: 418 N. Firmin Street
B3. Original Use: Single-family residence **B4. Present Use:** Single-Family Residence
***B5. Architectural Style:** Victorian Cottage
***B6. Construction History:** (Construction date, alterations, and date of alterations):

County Assessor's documents suggest that the current dwelling located at 418 N. Firmin Street was constructed in 1890 during the period that Mary S. and George S. Robinson owned the property. The second improvement was a stucco-clad garage, added in 1940 by owner Margherita Ferrero. (*See Continuation Sheet page 4*)

***B7. Moved?** ☒ **No** ☐ **Yes** ☐ **Unknown** **Date:** N/A **Original Location:** N/A
***B8. Related Features:** N/A
B9a. Architect: N/A **b. Builder:** N/A
***B10. Significance: Theme:** Early Residential Development **Area:** Westlake CPA
Period of Significance: 1890 **Property Type:** Single-Family **Applicable Criteria:** N/A
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

National Register Criterion A

The subject property was constructed prior to the 1890s oil boom but was developed during the early suburban expansion radiating away from the City's downtown. This early suburban development is a historic trend that made a significant contribution to the development of the community. However, as described in Section 9, the property has been substantially altered and does not retain sufficient integrity of feeling, design, and association to convey this association. Additionally, neighboring altered buildings and infill construction have further compromised the property's integrity of feeling and association. Therefore, the subject property is ineligible for the National Register under Criterion A. (*See Continuation Sheet page 5*)

B11. Additional Resource Attributes (List attributes and codes): N/A

***B12. References:**

City of Los Angeles. Issued December 16, 2910. Building Permit No. 50337.

(*See Continuation Sheet page 5*)

***B13. Remarks:** N/A

***B14. Evaluator:**
Carrie Chasteen
Sapphos Environmental, Inc.
430 N. Halstead Street
Pasadena, CA 91107

***Date of Evaluation:** August 24, 2018

(Sketch Map with north arrow required.)

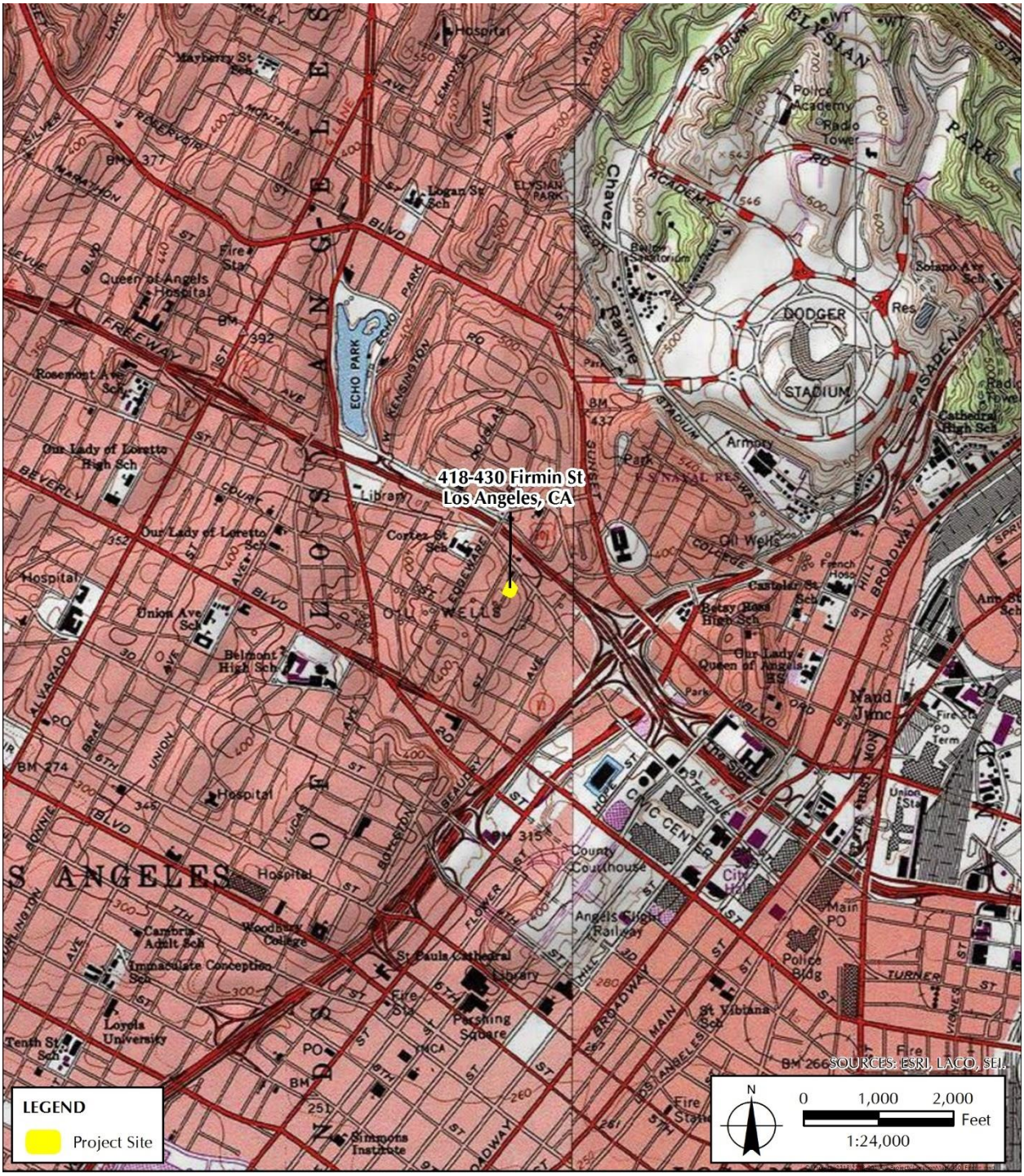


(This space reserved for official comments.)

LOCATION MAP

***Resource Name or #** (Assigned by recorder): 418 N. Firmin Street

***Map Name:** Hollywood ***Scale:** 1:24,000 ***Date of map:** 1991



***P3a. Description** (*Continued from Primary Record page 1*)

Other details were not discernable from the public right-of-way at the time of survey in 2018 because the building has been mothballed and the subject property has been secured against vandals.



View of 418 N. Firmin Street (Secondary Façade)

Garage

The 1940 detached garage measures approximately 400 square feet and is located in the rear of the parcel. The garage features a pyramidal roof with exposed rafter tails, rough textured stucco, and a metal roll up door. The garage appears to be substantially altered by the stucco and the newer garage.



View of 418 N. Firmin Street (Garage)

Immediate Setting

The neighborhood around the subject property possesses proximity to the center of the City and thus was largely developed just before and after the turn of the 20th century, representing one of the earlier subdivision developments of middle-class worker housing in the City. Residential development to the southwest and northwest of the subject properties is characterized by small parcels with single-family and large, multi-family residences, dating primarily from the 1890s through the 1920s that reflect a variety of architectural styles. Common alterations include window replacements, window opening alterations, secondary coats of stucco, and inappropriate additions. The SurveyLA map of Firmin Street shows that only one property was improved after 1929. To the northeast and southeast, commercial development exists and large new multi-family projects are under construction. The street was originally named Fireman and it is not known when this was shortened to Firmin.

Recently, Lion Real Estate Group completed construction of a 121-unit multi-family residential development behind the Owner's property located at 327 Boylston Street. In addition, other large new multi-family projects located nearby are under construction or about to commence construction.

***B6. Construction History:** (*Continued from Building, Structure, Object Record page 2*)

Also in 1940, a permit was issued for the following alterations to the primary residence:

- Demolish two rooms on the rear of the building to be replaced by an addition
- New foundation and underpinning
- New stucco exterior

No additional permits have been issued for this property.

***B10. Significance:** (*Continued from Building, Structure, and Object Record page 2*)

National Register Criterion B

The subject property does not possess an association with persons significant in our past, as no one associated with that address can be documented to have contributed to local, state, or national history to an extent significant enough to warrant designation. The property is not known to be associated with important early settlers. Therefore, the subject property is ineligible for the National Register under Criterion B.

National Register Criterion C

The subject property does not possess early and distinctive characteristics of a type and period of construction in the Westlake CPA of the City due to alterations. Additionally, it is not an especially unique or high-style cottage and does not appear to be the work of a master architect. Lastly, the building has been substantially altered as described above and is not sited in a prominent location. Therefore, the subject property is ineligible for the National Register under Criterion C.

National Register Criterion D

The subject property is ineligible for the National under Criterion D, as it is not anticipated to yield, or may be likely to yield, information important in prehistory or history.

Statement of Integrity

The subject property, located at 418 N. Firmin Street, was evaluated against the seven aspects of integrity as outlined in the California Code of Regulations (Section 4852

[C]), and described in the National Register Program. 418 N. Firmin has been substantially altered, and does not retain integrity of design, materials, workmanship, feeling, and association. The building has not been moved and retains integrity of location. Lastly, neighboring altered buildings and infill construction have further compromised the property's integrity of feeling, association, and setting.

***B12. References:** (*Continued from Building, Structure, and Object Record page 2*)

City of Los Angeles. Issued December 16, 1940. Building Permit No. 50343.

State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION **PRIMARY RECORD**	Primary # HRI # Trinomial NRHP Status Code: 3S
Other Listings Review Code	Reviewer Date

Page 1 **of** 10 ***Resource Name or #** (Assigned by recorder)**:** 430 N. Firmin Street
P1. Other Identifier: None

***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted**
***a. County:** Los Angeles **and** (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad:** Hollywood **Date**: 1991 **T**1S**; R**14W**;__of__of Sec** 11;__**B.M.**
c. Address: 430 N. Firmin Street **City:** Los Angeles **Zip:** 90004
d. UTM (Give more than one for large and/or linear resources) **Zone:** ___, _____ mE/ _____ mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate): APN: 516-022-006

***P3a. Description** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries.

Located at 430 N. Firmin Street, Los Angeles, California (APN 516-022-006), the subject property is located one lot south of Temple Street with frontage along N. Firmin Street. It is currently bounded by an empty lot to the southwest and developed parcels on the northeast and southeast sides. The 1,490-square-foot, wood-framed and clad dwelling is a Victorian cottage built in 1895 and laid out in a rectangular plan and is oriented northeast to southeast. Its site includes a small terraced and landscaped front yard accessed by a set of four period-concrete stairs and walkway approach. *(See Continuation Sheet page 4)*

***P3b. Resource Attributes** (List attributes and codes)**:** HP2 Single-Family Residence

***P4. Resources Present:** ☒Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.) See Continuation Sheet page 5.



P5b. Description of Photo (view, date, accession #): July 18, 2017; Facing southeast.

***P6. Date Constructed/Age and Source:**
☒Historic ☐Prehistoric ☐Both

***P7. Owner and Address:**
Firmin Court LP

***P8. Recorded by** (Name, affiliation, and address): Donald Faxon
Sapphos Environmental, Inc.
430 N. Halstead Street
Pasadena, CA 91107

***P9. Date Recorded:** July 18, 2017

***P10. Survey Type** (Describe)**:**
Intensive

***P11. Report Citation** (Cite survey report and other sources, or enter "none")**:** Sapphos Environmental, Inc. 2018. Historic Resource Assessment for 418, 426, and 430 N. Firmin Street, Los Angeles, California.

Attachments: ☐ NONE ☒ Location Map ☐ Sketch Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder): 430 N. Firmin Street ***NRHP Status Code:** 3S

B1. Historic Name: 430 N. Firmin Street
B2. Common Name: 430 N. Firmin Street
B3. Original Use: Single-family residence **B4. Present Use:** Single-Family Residence
***B5. Architectural Style:** Victorian Cottage
***B6. Construction History:** (Construction date, alterations, and date of alterations):

The subject property had only two owners from 1900 to 1960. County Assessor's documents suggest that the current dwelling at 430 N. Firmin Street was constructed in 1895 during the period that Leo Longely owned the subject property. The second improvement was a garage, added in 1925 by second owner Harry R. Jones. A permit for that garage suggests that it was originally constructed with a galvanized metal roof, as it retains today, but the similar galvanized siding may have been added later.

***B7. Moved?** ☒ **No** ☐ **Yes** ☐ **Unknown** **Date:** N/A **Original Location:** N/A
***B8. Related Features:** N/A
B9a. Architect: N/A **b.** **Builder:** N/A
***B10. Significance: Theme:** Early Residential Development **Area:** Westlake CPA
Period of Significance: 1895 **Property Type:** Single-Family **Applicable Criteria:** A/1
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

While the Westlake area is well known for its historic middle-class (upper middle-class in today's terms) development, the subject property was among the development of 1-story cottages and multi-family apartment buildings built to house middle-class worker families on the northern edge of the area, and at the foot of the Angelino Heights neighborhood (the City's first HPOZ). The distinction in the size and modest Victorian character of the primary residence at the subject property compared to the grand, high-style, 2- and 3-story homes upon the prestigious hill reflects this difference in socio-economic status. 430 N. Firmin Street is a rare and generally unaltered example of a middle-class worker dwelling from its pre-turn of the 20th century period of significance. 430 N. Firmin Street is comparable to examples of single-family properties found in the Westlake CPA as individually eligible under Criterion A for the National Register, including 212 N. Belmont Avenue and 248 N. Belmont Avenue. (*See Continuation Sheet page 8*)

B11. Additional Resource Attributes (List attributes and codes): N/A

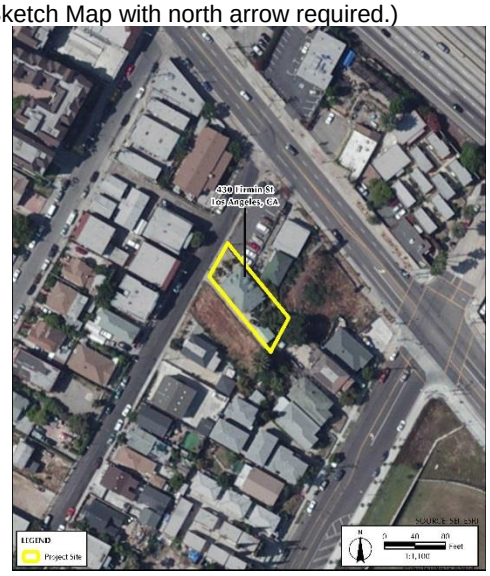
***B12. References:** See Continuation Sheet page 9.

***B13. Remarks:** N/A

***B14. Evaluator:**
Carrie Chasteen
Sapphos Environmental, Inc.
430 N. Halstead Street
Pasadena, CA 91107

***Date of Evaluation:** August 24, 2018

(Sketch Map with north arrow required.)



(This space reserved for official comments.)

LOCATION MAP

 ***Resource Name or #** (Assigned by recorder)**:** 430 N. Firmin Street

***Map Name:** Hollywood ***Scale:** 1:24,000 ***Date of map:** 1991



P3a. Description: (*Continued from Primary Record page 1*)

The building is designed with low 1-story massing with numerous glazed dormers on its hipped roof, which features boxed overhanging eaves. The building was reroofed with composition shingles in 2016, although the original roof form appears to be extant. The walls are clad in horizontal clapboard, framed by simple horizontal crown moldings, vertical corner moldings, and a foundation skirted by a horizontal board to mimic the crown moldings. Many of the windows were replaced at an unknown date although the original openings were retained. An integrated porch is located within the northwestern end of the front façade, while projecting bays are located on both sides. A substantially altered garage is located at the rear of the site.

Primary (Northwestern) Façade

The northwestern façade of 430 N. Firmin Street is three bays wide, with painted concrete stairs leading to a central entrance located within an integrated porch placed within the northern two bays. The southern-most bay features a two-sided oriel window. That window, like all of the windows located on the visible exterior walls, has had its sash replaced by double-hung vinyl windows with false muntins; however, two windows located within the deeply recessed porch are not readily visible to the public but contain original sash that can serve as models for possible future window replacement. Above the first floor, two small, symmetrically balanced dormers contain original square multi-light sash with triple stretched diamond panes mounted within flat casings that feature stretched lintels.

Secondary (Southwestern) Façade

The secondary southwestern façade does not have second floor dormers, but instead features a three sided and windowed canted gabled bay. The gable features horizontal slat vents. Double-hung windows are also located at both ends of this wall. A formalized treatment for the slightly recessed rear entrance is manifested along the eastern end of this wall by a vertical opening framed by flat moldings and a boxed roof support post.

Southeastern Façade

The rear, southeastern, façade continues the wrap-around entrance surround at its south corner, balanced by a short projecting hipped wing extension across the other two bays. This small wing features different clapboards which suggest it may be a later, if well-integrated, addition. It utilizes its own rear door, concrete stairway, and short, paired window openings, while the earlier rear access at the south end employs a wider and more formal set of concrete stairs under its pedimented entrance.

Garage

The 1925 garage appears to have been altered with corrugated metal siding to match the intact original roofing. It also has received a modern metal door. Its wood-frame construction, visible by its exposed rafter ends, appears intact.

Immediate Setting

The neighborhood around the subject property possesses proximity to the center of the City and thus was largely developed just before and after the turn of the 20th century, representing one of the earlier subdivision developments of middle-class worker housing in the City. Residential development to the southwest and northwest of the subject properties is characterized by small parcels with single-family and large, multi-family residences, dating primarily from the 1890s through the 1920s that reflect a variety of architectural styles. Common alterations include window replacements, window opening alterations, secondary coats of stucco, and inappropriate

additions. The SurveyLA map of Firmin Street shows that only one property was improved after 1929. To the northeast and southeast, commercial development exists and large new multi-family projects are under construction. The street was originally named Fireman and it is not known when this was shortened to Firmin.

Recently, Lion Real Estate Group completed construction of a 121-unit multi-family residential development behind the Owner's property located at 327 Boylston Street. In addition, other large new multi-family projects located nearby are under construction or about to commence construction/

P5a. Photo or Drawing (*Continued from Primary Record page 1*)



View of the Primary (Northwestern) and Secondary (Southwestern) Façades



View of the North End of the Primary (Northwestern) Façade, 430 N. Firmin Street



Detail of Original Window



View of Secondary (Southwestern) Façade, 430 N. Firmin Street



Secondary (Northeastern) Façade, 430 N. Firmin Street



Southeastern Façade, 430 N. Firmin Street



Garage, 430 N. Firmin Street

***B10. Significance:** (*Continued from Building, Structure, and Object Record page 2*)

National Register Criterion A

Among other buildings on Firmin Street, the property at 430 N. Firmin Street appears to be the most intact and in the best condition, with a construction date of 1895. Although many of the windows have been replaced with modern vinyl units within existing openings, original windows remain and could inform replica replacement units in order to restore the building. Additionally, the original window openings are intact and have not been altered. The roof material was replaced in 2016; however, the form of the roof is extant.

430 N. Firmin Street is eligible for the National Register on the local level under Criterion A, as a rare intact residence that reflects the early residential development in the neighborhoods of Los Angeles under the SurveyLA Residential Development and Suburbanization/Early Residential Development, 1880–1930 theme. Oil was first discovered in the City in 1892, and the discovery resulted in economic and real estate booms. Early development in the City centered around downtown and suburban expansion radiated outward in all directions. The subject properties are located within the Westlake CPA, which is one of the earliest residential suburbs in the history of the City. The primary residence at 430 N. Firmin Street is a modest cottage that represents this early period of suburban expansion which directly resulted from the discovery of oil. Therefore, the primary residence located at 430 N. Firmin Street reflects the patterns of community planning and development during the early suburban development of the City. The period of significance is 1895, the year the building was constructed, which broadly covers the earliest periods of residential development within the present-day boundaries of the City's and following the City's incorporation in 1850. As described in Section 9, the building is relatively unaltered and generally retains integrity of design, materials, and workmanship. However, neighboring altered buildings and infill construction adjacent to the subject property have compromised the property's integrity of setting. Although some windows have been inappropriately replaced, the original window openings were retained. Two original windows retain original wood sash, and period-appropriate replacement windows can be reinstalled. The garage at 430 N. Firmin Street is non-contributing to the subject property due to loss of integrity and is, therefore, ineligible for listing in the National Register under this criterion.

National Register Criterion B

The subject property does not possess an association with persons significant in our past, as no one associated with that address, including Leo Longley, can be documented to have contributed to local, state, or national history to an extent significant enough to warrant designation. Additionally, the property is not known to be associated with an important early settler. Therefore, the subject property is ineligible for listing in the National Register under Criterion B.

National Register Criterion C

The subject property is a low-style example of a Victorian cottage and does not possess unique or distinctive architectural design elements associated with this property type. The primary residence does not embody the distinctive characteristics of a type, period, or method construction. The primary residence has minimal design embellishment and does not possess high artistic value. The original building permit is not available, and the original architect, if any, is not known. Therefore, the subject property is not the work of a master. For these reasons, the subject property is not eligible for listing in the National Register under Criterion C.

National Register Criterion D

The subject property is ineligible for the National under Criterion D, as it is not anticipated to yield, or may be likely to yield, information important in prehistory or history.

Statement of Integrity for 430 N. Firmin Street

The subject property, located at 430 N. Firmin Street, was evaluated against the seven aspects of integrity as outlined in the California Code of Regulations (Section 4852 [C]), and described in the National Register Program. As described in Section 9, the primary residence is generally unaltered, with the exception of the wood shake roof was replaced with composition shingles, most windows were removed although the original window openings remain, and a small addition may have been constructed on the rear of the building at an unknown date. The property generally retains integrity of workmanship, design, materials, feeling, association, and location, and retains sufficient integrity to convey an association with the early suburban residential patterns radiating from the City's historic core. However, neighboring altered buildings and infill construction have compromised the property's integrity of setting.

California Register of Historical Resources

The California Register eligibility criteria mirror those of the National Register. Therefore, 430 N. Firmin Street is eligible for the California Register for the same reasons outlined above.

City of Los Angeles Historic-Cultural Monuments

Similarly, the HCM criteria are similar to the National Register and California Register criteria. Therefore, 430 N. Firmin Street is eligible for designation as an HCM for the same reasons outlined above.

HPOZ Eligibility

Within the Westlake CPA, few of the City's HCM designations are north of 6th Street, and none were north of Beverly Boulevard, an area that still contains blocks of late-19th and early-20th century worker housing, according to SurveyLA's 2014 Historic Resources Survey Report, and LSA's Intensive Survey for the Community Redevelopment Area.

The neighborhood Firmin Street is located in within the Westlake CPA is the subject of infill redevelopment. Additionally, many of the neighboring buildings on Firmin Street and in the general area have been altered with replacement windows, secondary coatings of stucco, and inappropriate additions. Based on the style of architecture represented, the number of buildings altered from their circa 1900 appearances, and the number of buildings that appear to have been constructed or substantially renovated over the course of time, the neighborhood does not possess sufficient integrity to form a HPOZ.

***B12. References:** (*Continued from Building, Structure, and Object Record page 2*)

California Office of Historic Preservation. 1999. *California State Law and Historic Preservation*, 4853 (c), p. 66.

City of Los Angeles Department of City Planning, Office of Historic Resources, Los Angeles, CA. 15 June 2009. "Intensive Survey, Westlake Recovery Redevelopment

Area." Prepared by: LSA Associates, Inc., Riverside, CA Available at: http://preservation.lacity.org/sites/default/files/Westlake_RRA_Report.pdf

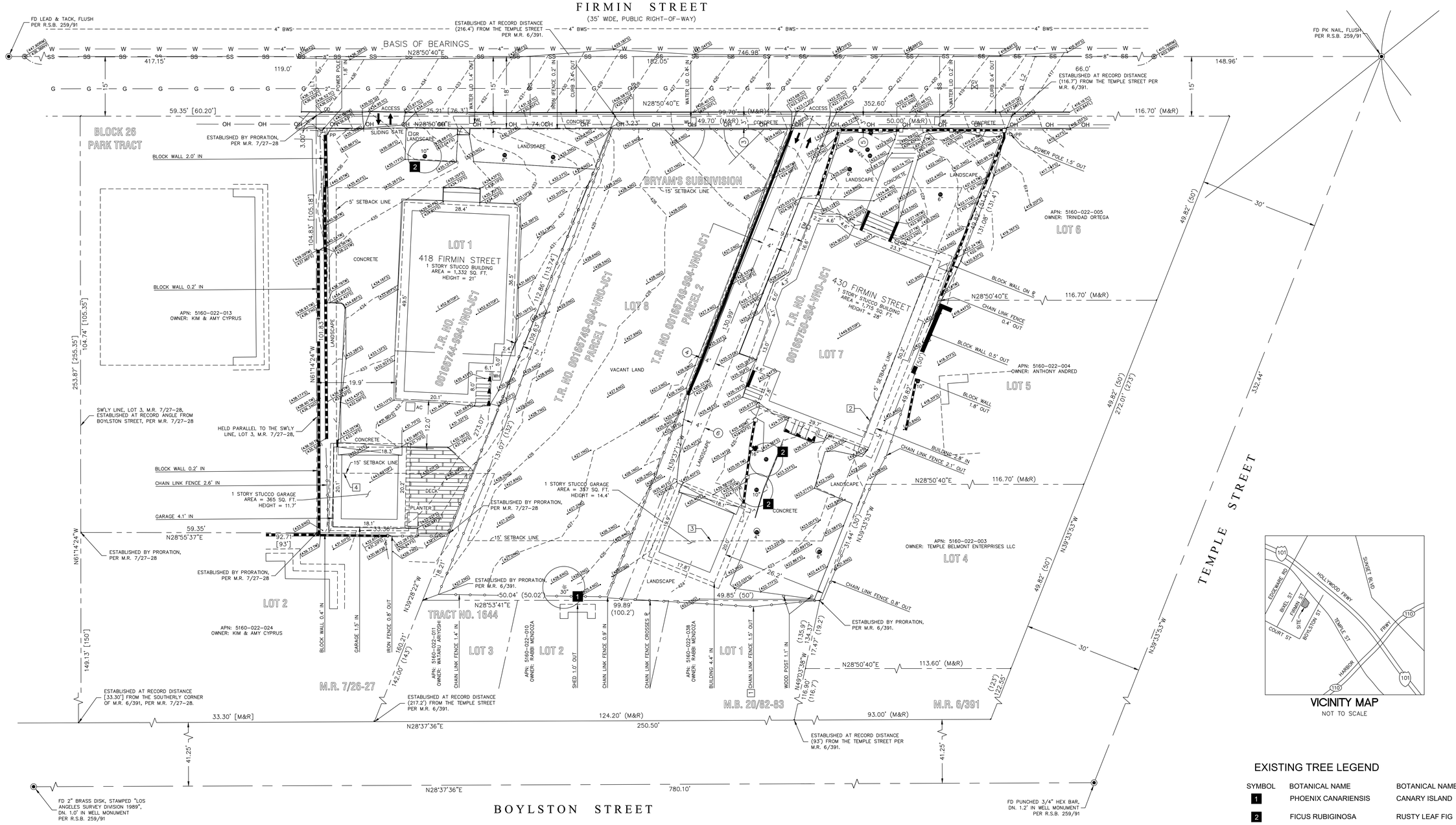
City of Los Angeles Department of City Planning. 2011. *Westlake Individual Resources Survey.*

City of Los Angeles Department of City Planning, Office of Historic Resources. Los Angeles, CA. April 2014. "SurveyLA Historic Resources Survey Report, Westlake Community Plan Area." Prepared by: Architectural Resources Group, Inc., Pasadena, CA.

McAlester, Virginia, and Lee McAlester. 2004. *A Field Guide to American Houses*. New York, NY: Knopf Doubleday Publishing Group.

Appendix G

Tree Survey



EXISTING TREE LEGEND

SYMBOL	BOTANICAL NAME	BOTANICAL NAME	CALIPER SIZE
1	PHOENIX CANARIENSIS	CANARY ISLAND DATE PALM	30"
2	FICUS RUBIGINOSA	RUSTY LEAF FIG	10"
1	PERSEA AMERICANA	CALIFORNIA AVOCADO	10"
1	STRELITZIA NICOLAI	GIANT BIRD OF PARADISE	10"

EXISTING TREE INVENTORY PLAN FOR ENVIRONMENTAL ASSESSMENT

FIRMIN COURT

FONG HART SCHNEIDER - PARTNERS
Landscape Architecture . Planning . Urban Design
31742 Coast Highway
Laguna Beach, California
92651-6974
Tel: 949 645 9444
Fax: 949 715-7286

The Decro Group

DAHLIN

18818 Teller Avenue
Suite 260
Irvine, CA 92612
949-250-4680

SCALE 1/4" = 1'-0"
0 4 8 16

DATE 04-30-2018
JOB NO. 1410.002

NORTH

L1.06

Appendix H

1. **Phase I Environmental Site Assessment (Phase I) conducted by EFI Global, Inc. on June 9, 2017 ("EFI Global, 2017a")**
2. **Phase II Environmental Site Assessment (Phase II) conducted by EFI Global, Inc. on November 9, 2017 ("EFI Global, 2017b")**
3. **Preliminary Geologic and Geotechnical Engineering Investigation conducted GeoConcepts, Inc. in November 2017**
4. **Subsurface Environmental Investigation conducted by Essel Environmental Engineering & Consulting (Essel) on April 30, 2018**
5. **Additional Subsurface Environmental Investigation conducted by Essel on December 14, 2018**
6. **Site Remediation Plan prepared by Essel on October 24, 2018**







Prepared For:

The Decro Corporation
400 Corporate Pointe, Suite 300
Culver City, California 90230

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

418, 426, and 430 Firmin Street
Los Angeles, California 90026

EFI Project No. 9836002375
Date of Issuance: June 9, 2017

Prepared By:

EFI Global, Inc.
5261 West Imperial Highway
Los Angeles, California 90045
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Engineering • Fire Investigations • Environmental Specialty & Consulting Services

EFI Global
Engineering, Fire & Environmental Services

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EXECUTIVE SUMMARY

EFI Global, Inc. has performed a Phase I Environmental Site Assessment (Phase I) for The Decro Corporation (Client) for a residential and vacant property located at 418, 426, and 430 Firmin Street, in Los Angeles County and the City of Los Angeles, California, Assessor's Parcel Numbers (APN's): 5160-022-012, 5160-022-006, and 5160-006-007. The research conducted for this study and the report prepared are in conformance with the United States Environmental Protection Agency (USEPA) All Appropriate Inquiry (AAI) standard and the American Society for Testing and Materials (ASTM) E 1527-13 scope of work.

Site Description

According to our research and information provided by the Client, the following addresses have been found to be associated with the subject property: 418, 426, and 430 Firmin Street, 25 and 368 Park Place, 25 and 368 Fireman Street, Los Angeles, California. The subject property is located on the southeast side of Firmin Street, approximately 95 feet south of West Temple Street in the City of Los Angeles. The subject property is approximately 0.4 total acres in size and is occupied by two residential structures and a vacant lot. The residential structures are approximately 2,820 total square feet in size. The remaining portions of the subject property consist of concrete paved parking, landscaped areas, and vacant land. The surrounding area is used for residential and commercial purposes. Groundwater is estimated to be less than 10 feet below ground surface in the area of the site and is assumed to flow towards the southwest.

- No significant hazardous material storage or recognized environmental conditions were observed at the site. Those interviewed, as persons familiar with the site were not aware of any negative environmental conditions associated with the property.

Historical Land Use

According to EFI Global, Inc.'s interpretation of the historical research data, the subject property is comprised of three parcels: north, central, and south. The three parcels underwent distinct development patterns as described below.

Northern Parcel: The northern parcel of the subject property (430 Firmin Street) was developed with a small structure sometime prior to 1890. By 1894 the property was developed with the existing residential structure and a shed. The subject property remained in the same configuration until at least 1950 when the shed was demolished and the existing private auto garage was developed. The property has remained in the same configuration to the present.

Central Parcel: The central parcel of the subject property (426 Firmin Street) was undeveloped land prior to 1890. The property remained undeveloped until at least 1906 when it was developed with an unspecified vacant structure. By 1927 the structure was demolished the the property was vacant land. The property remained vacant until at least 1938. By 1948 the property was developed with a residential structure. The property remained in the same configuration until 1983 when the residential structure was demolished and the property was vacant. The property has remained vacant to the present.

Southern Parcel: The southern parcel of the subject property (418 Firmin Street) was developed with a residential structure and two associated sheds sometime prior to 1890. The property remained in the same configuration until at least 1906. Sometime prior to 1950 the residential structure was altered to reflect the existing configuration and a private auto garage was constructed. The property has remained in the same configuration to the present.

Historical occupants of all three parcels have all been residential in nature.

- Historical records indicate that oil exploration occurred on the central and southern parcels in the 1940's. For further discussion see below.
- The earliest historical resource obtained during this investigation was a Sanborn map from 1890 which indicated development of the subject property for residential use. The lack of historical data sources for the subject property dating back to first developed uses represents historical data source failure. However, it is assumed that prior to 1890, the subject property would have been developed for residential use, if not undeveloped. Based on this notion, this limitation is not expected to significantly alter the findings of this investigation.

Environmental Data Search

- The subject property is not listed on any of the regulatory databases researched.
- There are no properties within 100-feet of the subject property where a release is considered likely or a known release has occurred.
- In our opinion, none of the other sites listed on the regulatory database report pose a significant threat to the subject property as there is no indication of a release at the respective sites, a release has occurred but groundwater has not been impacted, a release has occurred but the case is closed, or the sites are located cross or down gradient of the subject property and in excess of 1/10 mile from the subject property.
- The regional offices of the Los Angeles Regional Water Resources Control Board (LARWQCB), Department of Toxic Substances Control (DTSC), South Coast Air Quality Management District (SCAQMD), Los Angeles Fire Department Hazardous Materials Records (LAFD HazMat), Los Angeles Fire Department Underground Tanks (LAFD UST), Los Angeles Fire Department Arson Division (LAFD AD), Los Angeles County Department of Health Services Public Health Investigations (LACDHS PHI), and City of Los Angeles Bureau of Sanitation (LABS) were contacted regarding permits and site investigation files, hazardous materials, underground storage tank, and industrial waste discharge records for the subject property. Additionally, the State Water Resources Control Board (SWRCB) online GeoTracker database, SCAQMD online Facility INformation Detail (FIND) database, and DTSC online EnviroStor and Hazardous Waste Tracking System (HWTS) databases were searched for information on the subject property to identify any evidence of previous or current hazardous material usage.
    - According to responses to our requests from SCAQMD, LARWQCB, DTSC, LACDHS PHI, and LABS, there are no files for the subject property. Furthermore, a review of the Geotracker, EnviroStor, FIND, and HWTS databases found no files for all subject property addresses.
    - At the time of this report was issued, no response has been received from LAFD HazMat, LAFD AD, and LAFD UST. Based upon responses from other agencies and additional historical information, this is not considered a significant data gap and is not expected to significantly alter the conclusions of this report. Nonetheless, should relevant information be obtained from these agencies subsequent to issuing this report, an addendum will be prepared and provided to the Client.
- The Division of Oil, Gas, and Geothermal Resources (DOGGR) Online Mapping System was reviewed for information pertaining to oil and gas exploration on or nearby the subject property.

  - The California Division of Oil, Gas, and Geothermal Resources (DOGGR) regulate the drilling, operation, maintenance, plugging, and abandonment of oil, natural gas, and geothermal resources throughout the State of California. According to the map reviewed, two oil wells appear to be located on the subject property.
  - The former oil production activities on the subject property represent an environmental concern for the subject property due to common practices associated oil exploration and production activities. During the drilling of wells, a large volume of drilling cuttings is generated, which are typically deposited into nearby excavation pits. In addition, surficial releases can occur during drilling activities. Records from the well located on 418 Firmin Street indicate an abandoned well was discovered on the property driveway. The well API Number, Operator, and Well Number are: 03723873, H. Rogalske, and 1-1. The well was re-abandon on May 3, 1941 by filling the well hole with mud puddled water and cement. No staining or cuttings pits were observed in aerial photographs. No other records were available. The well located on 426 Firmin Street API Number, Operator, and Well Number are: 03725670, H. Rogalske, and 2A. The former onsite oil production activities at the subject property are considered a recognized environmental condition (REC) for the subject property.

- The City of Los Angeles NavigateLA Online Mapping System was reviewed to obtain substructure maps for the subject property. According to a review of the substructure maps for the subject property, no USTs or other substructure features were identified in the area of the subject property.
- The User did not provide EFI Global any information either verbally or in writing (i.e. Title Report) regarding environmental cleanup liens or activity and use limitations encumbering the subject property. An environmental lien search was not requested by the User; however, based on our review of the Department of Toxic Substances Control (DTSC) EnviroStor Database, no environmental liens enforced by the DTSC were identified.

Additional Issues

- Based on the age of the onsite structures, there is a potential for asbestos containing building materials at the site, however, no testing was completed as part of this report. Potential ACM observed during the site reconnaissance include: wood and drywall partitions, tile and associated mastic. Potential ACM appeared to be in good condition.
- Based on the age of the onsite structures, there is a potential for lead based paint at the site. Observed painted surfaces appeared to be in good condition; however, a lead based paint survey is recommended prior to major renovation or demolition activities.
- According to research the potential for radon at this property is low.
- EFI Global, Inc. did not observe visible or olfactory indications of the presence of mold, nor did EFI Global, Inc. observe obvious indications of significant water damage. No sampling was conducted as part of this assessment.
- The City of Los Angeles Department of Building and Safety methane zone data was reviewed to determine if the subject property is located in a methane or methane buffer zone. According to the information reviewed, the subject property is located within a methane zone. Therefore testing for the presence of methane and the installation of methane mitigation systems at the property prior to construction activities may be necessary. (Division 71 of the Los Angeles Building Code).

CONCLUSIONS

EFI Global, Inc. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice 1527-13, at 418, 426, and 430 Firmin Street, Los Angeles, California, the subject property. Any exceptions to or deletions from this practice are described in the individual sections of this report. This assessment has revealed no evidence of recognized environmental conditions or *de minimis* conditions in connection with the subject property except for the following:

Recognized Environmental Conditions (REC)

The historical on-site oil exploration and production activities circa 1941, including drilling, are considered a REC for the subject property.

Historical Recognized Environmental Conditions (HREC)

In our opinion, no HRECs were identified during the course of this assessment.

Controlled Recognized Environmental Conditions (CREC)

In our opinion, no CRECs were identified during the course of this assessment.

De Minimis Conditions

In our opinion, no *de minimis* conditions were identified during the course of this assessment.

RECOMMENDATIONS

Based on the foregoing, a Phase II Environmental Site Assessment is recommended.

1.0 INTRODUCTION

EFI Global, Inc. has performed a Phase I Environmental Site Assessment (Phase I) for the property located at 418, 426, and 430 Firmin Street, in Los Angeles County and the City of Los Angeles, California (Subject Property). This report has been prepared for the sole use of The Decro Corporation (Client).

The research conducted for this study and the report prepared are in general conformance with the EPA "All Appropriate Inquiries" standard and the ASTM 1527-13 "Standard Practices for Environmental Site Assessments: Phase I Environmental Site Assessment Process". The primary purpose for performing a Phase I ESA is to "…permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations (commonly known as landowner liability protections) on Comprehensive Emergency Response Compensation and Liability Act (CERCLA) liability." (ASTM, 2013) An environmental site assessment meeting or exceeding this practice and completed less than 180 days prior to the date of acquisition is presumed to be valid under this standard. In order to maintain landowner liability protections, the user also has a "continuing obligation to not interfere with activity and use limitations associated with the property," must take "reasonable steps to prevent releases" and must "comply with legal release reporting obligations." (ASTM, 2013) Further, it is the goal of this study to identify business risks related to the property associated with environmental conditions. This investigation is not an environmental compliance audit and is not designed to determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations.

The goal of this process is to identify any (1) recognized environmental conditions (RECs), (2) historic recognized environmental conditions (HRECs), (3) controlled recognized environmental conditions (CRECs), and/or (4) *de minimis* conditions associated with the subject property.

- A **recognized environmental condition** is defined as "…the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." This definition does not include de minimis conditions defined as "a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies" (ASTM, 2013).
- A **historical recognized environmental condition** is defined as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)." (ASTM, 2013). The HREC designation requires the comparison of residual contamination concentrations, if any, to currently regulatory standards.
- A **controlled recognized environmental condition** is defined as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)" (ASTM, 2013).

- A ***de minimis condition*** is defined as "a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* conditions are not recognized environmental conditions nor controlled recognized environmental conditions" (ASTM, 2013).

In order to identify environmental conditions at the site, the Phase I ESA includes a site inspection, interviews with parties familiar with the property, historical research into the past uses of the property, and an environmental records search with regard to the subject property, adjoining and immediately surrounding properties, and the surrounding area. In addition, EFI Global, Inc. provides an opinion regarding the potential for asbestos containing materials, lead-based paints, mold, radon, oil and gas exploration, and methane as they relate to the subject property. Reviewing those documents that are publicly available, reasonably ascertainable, and practically reviewable controls the completeness of this assessment. The inability to review documents which do not exist or are not publicly available, reasonably ascertainable, or practically reviewable may result in a data gap.

1.1 Significant Assumptions

While this report provides an overview of potential environmental concerns, both past and present, the environmental assessment is limited by the availability of information at the time of the assessment. It is possible that unreported disposal of waste or illegal activities impairing the environmental status of the property may have occurred which could not be identified. The conclusions and recommendations regarding environmental conditions that are presented in this report are based on a scope of work authorized by the Client. Note, however, that virtually no scope of work, no matter how exhaustive, can identify all contaminants or all conditions above and below ground.

1.2 Limitations and Exceptions

This report has been prepared in accordance with generally accepted environmental methodologies referred to in ASTM 1527-2013, and contains all of the limitations inherent in these methodologies. No other warranties, expressed or implied, are made as to the professional services provided under the terms of our contract and included in this report. The conclusions of this report are based in part, on the information provided by others. The possibility remains that unexpected environmental conditions may be encountered at the site in locations not specifically investigated. The services performed and outlined in this report were based, in part, upon visual observations of the site and attendant structures. Our opinion cannot be extended to portions of the site that were unavailable for direct observation, reasonably beyond the control of EFI Global, Inc. The objective of this report was to assess environmental conditions at the site, within the context of our contract and existing environmental regulations within the applicable jurisdiction. Evaluating compliance of past or future owners with applicable local, provincial, and federal government laws and regulations was not included in our contract for services. Our observations relating to the condition of environmental media at the site are described in this report. It should be noted that compounds or materials other than those described could be present in the site environment.

1.3 Reliance

This report has been prepared for the sole use of The Decro Corporation. The contents should not be relied upon by any other parties without the express written consent of The Decro Corporation and EFI Global, Inc.

1.4 User Responsibilities

The United States Environmental Protection Agency (USEPA) All Appropriate Inquiry (AAI) and ASTM E 1527-13 Phase I Standards require that the user conduct independent research and consider certain information before purchasing a property:

- Obtain a recent (less than 180 days old) title report prepared for the subject property. The report should be reviewed to obtain information regarding environmental clean-up liens or activity and use limitations (AULs) with regard to the subject property. If environmental cleanup liens or AULs encumbering the subject property or in connection with the subject property are identified, the user should provide that information to the Environmental Professional (EFI Global, Inc.). If the user has actual knowledge of environmental cleanup liens or AULs encumbering the subject property or in connection with the subject property, the user should provide that information to the Environmental Professional (EFI Global, Inc.).
- The user should provide the Environmental Professional (EFI Global, Inc.) with any specialized knowledge the user has with regard to recognized environmental conditions in connection with the property.
- If the user is aware of any commonly known information in the community about the subject property with respect to recognized environmental conditions, the user should provide the information to the Environmental Professional (EFI Global, Inc.).
- If this Phase I ESA was prepared as due diligence for a property transaction, it is the responsibility of the user to consider the relationship of the purchase price to the fair market value of the property. If the purchase price is significantly lower than the fair market value, the user should identify the alternate reason for the low purchase price if the lower purchase price is not related to the property being affected by hazardous substances or petroleum products.

2.0 SITE DESCRIPTION

EFI Global, Inc. has performed a Phase I for a residential and vacant property located at 418, 426, and 430 Firmin Street, in Los Angeles County and the City of Los Angeles, California. The subject property is located on the southeast side of Firmin Street, approximately 95 feet south of West Temple Street in the City of Los Angeles. The subject property is approximately 0.4 total acres in size and is occupied by two residential structures and a vacant lot. The residential structures are approximately 2,820 total square feet in size. The remaining portions of the subject property consist of concrete paved parking, landscaped areas, and vacant land. The surrounding area is used for residential and commercial purposes.

Natural gas services are provided to the subject property by Southern California Gas Company. Potable water and electrical services are provided be the Los Angeles Department of Water and Power.

2.1 Current and Historical Addresses

According to our research and information provided by the Client, the following addresses have been found to be associated with the subject property: 418, 426 and 430 Firmin Street, 25 and 368 Park Place, and 25 and 368 Fireman, Los Angeles,California.

2.2 Legal Description

According to the Los Angeles County Assessor's Office, the subject property is located in the City of Los Angeles, and is described by the Assessor's Parcel Numbers: 5160-022-012, 5160-022-006, and 5160-006-007.

2.3 Physical Setting

The elevation of the subject property is approximately 425 feet above sea level (United States Geological Survey Hollywood, CA 7.5 minute topographic quadrangle). Based on our review of the GeoCheck Section of the EDR Radius report, the subject property is not situated within a 100-year Federal Environmental Management Agency (FEMA) Flood Zone. No wetlands were identified at the property or adjoining/ immediately surrounding properties. Based on our review of groundwater data presented in the State Water Resources Control Board (SWRCB) GeoTracker website, groundwater was detected at a leaking underground storage tank site (1000 West Temple Street) approximately 1/4 mile southeast of the subject property at less than 10 feet feet below ground surface. Based on regional groundwater data, regional groundwater flow direction is estimated to be towards the southwest; however local groundwater flow direction may vary.

3.0 SITE RECONNAISSANCE/INTERVIEWS

3.1 Site Reconnaissance

On May 26, 2017, Mr. James Johnston of EFI Global, Inc. conducted a site reconnaissance of the subject property. The site inspection was conducted to attempt to identify current site use(s), current hazardous materials storage, and evidence of past site uses and hazardous material storage and to identify evidence of other recognized environmental conditions. The following table summarizes our Site Reconnaissance observations:

Yes	No	Observed Feature(s)
	✔	Hazardous Substances and Petroleum Products Containers
	✔	Underground and/or Aboveground Storage Tanks
✔		Drains/Sumps/Clarifiers/Sewer Interceptors/Septic Systems
	✔	Stained or Corroded Surfaces/Stained Soil or Stressed Vegetation
	✔	Pits/Ponds/Lagoons/Wetlands
	✔	Electrical Equipment with the Potential to contain Fluids
	✔	Production or Monitoring Wells
	✔	Evidence of Solid Waste Disposal/Dumping/Fill Areas

3.1.1 Exterior Observations

The exterior portions of 418 Firmin Street consist of concrete paved parking areas and access ways and landscaped areas. Concrete paved areas appeared to be in fair condition with some cracking but no visible staining. A two car detached garage was observed on the southern portion of the property. Two 10 gallon and five 4 gallon buckets of paint and six spare tires were observed in the garage. The concrete floor of the garage appeared to be in good condition. No pole or pad mounted transformers were observed in vicinity of the property. A small concrete swale was observed on the southern portion or the property draining to the north. No staining or hazardous materials were observed in the vicinity of the swale. The property is enclosed with a wooden fence along the north, east, and south boundaries and a wrought iron fence along the west boundary. No evidence of an oil well was observed.

The exterior portions of 426 Firmin Street consist of unpaved land and resulting vegetation. Trash debris but no hazardous materials were observed throughout the site. No stained soil or stressed vegetation was observed. No transformers were observed in the vicinity of the property. The property is enclosed with a temporary, locked, chain link fence. No evidence of the former residential structure or an oil well was observed.

Access was not granted to 430 Firmin Street. Exterior observations made from Firmin Street included concrete paved parking areas and access ways and landscaped areas. A detached garage was observed on the southern portion of the property.

No recognized environmental conditions were observed in this portion of the site.

3.1.2 Interior Observations

The subject property at 418 Firmin Street consists of a single story, three bedroom residential structure. The structure is of wood frame construction, with concrete foundation, and an asphalt

shingle roof. Building materials observed included drywall partitions, clock-lock wood and tile flooring, and granite counter tops. No drains or hazardous materials were observed.

As there are no structures on the subject property 426 Firmin Street, no interior observations were made during the site reconnaissance.

As access was not provided to the residential structure at 430 Firmin Street, no interior observations were made during the site reconnaissance.

No significant hazardous material storage or recognized environmental conditions were observed in the interior portions of the site.

3.1.3 Reconnaissance Limitations

During the site reconnaissance, access was not provided to the residential structure at 430 Firmin Street. Failure to observe the interior portions of the structure is considered a limitation, however based on the residential nature of the site, this limitation is not expected to impact the findings of the report.

3.2 Adjoining and Immediately Surrounding Properties

The adjoining and immediately surrounding properties (within 100-feet of the subject property boundary) were visually and physically observed from public right-of ways and the subject property in an attempt to identify recognized environmental conditions. Our observations are summarized in the following table:

Location	Address(es)	Uses/Observations
North	1218 West Temple Street	Single-family residential
East	421-437 (odd) North Boylston Street	Single-family residential
South	412 Firmin Street	Multi-family residential
West	421-431 (odd) Firmin Street	Single-family residential

No recognized environmental conditions were readily observable at the adjoining/immediately surrounding properties.

3.3 Surrounding Area Observations

3.3.1 Surrounding Property Uses

The surrounding area is mostly developed with commercial and residential structures.

3.3.2 Surrounding Geography

The surrounding area is mostly flat with a slight topographic slope to the northeast. No nearby bedrock outcroppings were observed in the area of the site. No lakes, ponds, rivers or streams were observed in the surrounding area.

3.4 Interviews

3.4.1 Property Owner

An environmental questionnaire was provided to the owner of the subject property. At the time of issuance of the report, the questionnaire had not been returned.

3.4.2 Key Site Manager

The owner of the property is the key site manager and was treated as the owner.

3.4.3 Property Occupants

No occupants were available for interview during the completion of this report.

3.4.4 Past Owners, Operators and Occupants

Past owners, operators and occupants were not able to be identified for an interview for this report.

3.4.5 Prospective Purchaser

Mr. Ted Handel, the representative of The Decro Corporation, was interviewed regarding the subject property. Mr. Handel was unaware of any recognized environmental conditions associated with the property.

3.4.6 Neighboring Property Owners/Tenants

Per ASTM, an attempt to interview neighboring property owners/tenants should be conducted when the subject property is vacant and unsecured land.

As the subject property is currently developed and utilized for residential use, no neighboring property owners/tenants were interviewed during this assessment.

3.5 User Provided Information

The United States Environmental Protection Agency (USEPA) All Appropriate Inquiry (AAI) and ASTM 1527-13 Phase I Standards require that the Report User conduct independent research and consider certain information before purchasing a property. EFI Global, Inc. recommends that the User documents completion of the following items:

3.5.1 Lien Search

The User is required to obtain a recent (less than 180 days old) title report prepared for the subject property. The report should be reviewed to obtain information regarding environmental clean-up liens or activity and use limitations with regard to the subject property. If environmental cleanup liens or activity and use limitations encumbering the subject property or in connection with the subject property are identified, the User should provide that information to the Environmental Professional (EFI Global, Inc.). If the User has actual knowledge of environmental cleanup liens or activity and use limitations encumbering the subject property or in connection with the subject property, the User should provide that information to the Environmental Professional (EFI Global, Inc.).

- The user did not provide EFI Global any information either verbally or in writing (i.e. Title Report) regarding environmental cleanup liens or activity and use limitations encumbering the subject property. An environmental lien search was not requested by the user; however, based on our review of the Department of Toxic Substances Control (DTSC) EnviroStor Database, no environmental liens enforced by the DTSC were identified.

3.5.2 Specialized Knowledge

The User should provide the Environmental Professional (EFI Global, Inc.) with any specialized knowledge the User has with regard to recognized environmental conditions in connection with the property.

- The User has no specialized knowledge with respect to recognized environmental conditions in connection with the property.

3.5.3 Commonly Known or Reasonably Ascertainable Information

If the User is aware of any commonly known information in the community about the subject property with respect to recognized environmental conditions, the User should provide the information to the Environmental Professional (EFI Global, Inc.).

- The User is not aware of any commonly known information in the community about the subject property with respect to recognized environmental conditions.

3.5.4 Property Valuation

If this Phase I ESA was prepared as due diligence for a property transaction, it is the responsibility of the User to consider the relationship of the purchase price to the fair market value of the property. If the purchase price is significantly lower than the fair market value, the User should identify the alternate reason for the low purchase price if the lower purchase price is not related to the property being affected by hazardous substances or petroleum products.

- According to the User, the purchase price generally reflects the fair market value of the property.

3.5.5 Purpose of Performing Phase I ESA

- According to the User, the user is a prospective purchaser of the subject property and the Phase I is being performed to qualify for landowner liability protections under CERCLA as well as identify business risks related to the property associated with environmental conditions.

3.6 User Provided Documents

- No documents were provided to EFI Global, Inc. by the Report User.

4.0 HISTORICAL LAND USE

A review of historical data derived from standard historical resources is provided in this section. The objective of consulting historical sources is to develop a history of the previous uses of the property and surrounding area, in order to help identify the likelihood of past uses having led to recognized environmental conditions in connection with the property. During our historical review, acute attention is paid to the subject property. Data relating to the adjoining and immediately surrounding properties (within 100-feet of the subject property boundary) and the surrounding area is reviewed to the extent that it is revealed in the course of researching the property itself.

4.1 Aerial Photography Review

Aerial Photography of many portions of the United States dates back to the 1920's. Items searched for in each photograph included, but were not limited to: evidence of tanks, gas stations, industrial site usage, water drainage pathways, areas which show evidence of drums or excessive debris, discolored or stained soils, areas of distressed vegetation, et cetera.

Aerial Photograph Coverage was available from Environmental Data Resources (EDR) for the years: 1927, 1938, 1948, 1952, 1964, 1972, 1981, 1989, 1994, 2005, 2009, 2010, and 2012. A summary of our observations is presented in the following table.

Year	Subject Property	Notable Adjoining Property Observations	Notable Observations of the Surrounding Area
1927 and 1938	Northern Parcel: Appears to be developed with a residential structure. Central Parcel: Appears to be undeveloped land. Southern Parcel: Appears to be developed with a residential structure and associated garage.	Undeveloped and residential	Undeveloped and residential
1948, 1952, 1964, 1972, and 1981	Northern Parcel: Appears to be developed with a residential structure and associated garage. Central Parcel: Appears to be developed with a residential structure. Southern Parcel: Appears to be developed with a residential structure and associated garage.	Residential and commercial	Residential and commercial

Year	Subject Property	Notable Adjoining Property Observations	Notable Observations of the Surrounding Area
1989, 1994, 2005, 2009, 2010, and 2012	Northern Parcel: Appears to be developed with a residential structure and associated garage. Central Parcel: Appears to be vacant land. Southern Parcel: Appears to be developed with a residential structure and associated garage.	Residential and commercial	Residential and commercial

4.2 Building Department Records Review

The addresses identified as current and historical addresses for the subject property were researched at the City of Los Angeles Department of Building and Safety. Items considered in the course of the building permit review are previous site usage, previous ownership, and the construction or demolition of any structures that may have had a negative environmental impact on the property. The following table summarizes relevant building permits obtained and reviewed:

418 Firmin Street		
Date	**Owner/Occupant**	**Purpose**
12/16/1940	Margherita Ferrero	Construction of a detached garage.
12/16/1940	Margherita Ferrero	Interior tenant improvements.

426 Firmin Street		
Date	**Owner/Occupant**	**Purpose**
09/23/1947	Fanny Drabin	Relocation of residential structure.
08/03/1951	Fanny Drabin	Certificate of occupancy for residential structure.
07/18/1983	Percy Drabin	Demolition of residential structure.

430 Firmin Street		
Date	**Owner/Occupant**	**Purpose**
11/23/1922	Harry Jones	Construction of a residential structure.
01/19/2016	Juatco Trust	Re-roof residential structure.

The remaining permits obtained and reviewed were for minor tenant improvements, sign permits, or other permits which are not significant and did not contain information about the historical site use or the potential for recognized environmental conditions.

4.3 City Directory Review

City directories have been published since the 1800's and provide detailed occupant information for the property and its surrounding area at five-year intervals. The purpose of the City Directory research

is to attempt to determine the businesses that historically occupied the subject property. Historical City Directories provided by EDR and reviewed by EFI Global, Inc. are listed below.

418 Firmin Street	
Date	**Listing**
1924	Meyer Goldberg Worker
1929	Annie Druin Upholstery
1933	Anna Druyun Upholstery, Saml Druyun Building of Education, Irving Druyun Lab
1937	Norma Ferrero Baker
1942, 1971, 1976, 1981, 1986, 1990, 2000, and 2006	Residential

426 Firmin Street	
Date	**Listing**
1976	Residential

430 Firmin Street	
Date	**Listing**
1924	Jones Harry Civil Department, Residential
1929	Jone Harry Real Estate, Residential
1933	Jones Harry Salesman, Residential
1937	Theo Jones USA, Residential
1942	Jones Harry Salesman, Theo Jones Worker, Residential
1951, 1958, 1981, 1990, 2000, and 2006	Residential

- Listings for adjoining and immediately surrounding properties reviewed during the course of researching the subject property did not reveal any uses of concern.

4.4 Sanborn Map Review

Originally compiled by the Sanborn Map Company of Pelham, New York for fire insurance companies to assess fire risks related to building materials and hazardous materials storage, today Sanborn Maps are an invaluable tool for Environmental Professionals in determining historical site use and the potential for environmental conditions. Sanborn Map Coverage is available from as early as 1867 in some cities. Although Sanborn maps were created for approximately twelve thousand cities and towns in the United States, Canada, and Mexico, Sanborn Map Coverage is not available in newer and more rural communities. Sanborn Map Coverage was available from EDR for the years: 1890, 1894, 1906, 1950, 1953, 1954, 1957, 1960, 1964, 1965, 1968, and 1970. A summary of our observations is presented in the following table.

Year	Subject Property	Notable Adjoining Property Observations	Notable Observations of the Surrounding Area
1890	At this time, Firmin Street is called Park Place. Northern Parcel: Depicted with one small structure associated with residential use. Central Parcel: Depicted with two small structures associated with residential use. Southern Parcel: Depicted with a residential structure and three small structures associated with residential use.	Undeveloped and residential	Undeveloped and residential
1894	At this time, Firmin Street is called Fireman. Northern Parcel: Depicted with a residential structure and stable. Central Parcel: Depicted with one small structure associated with residential use. Southern Parcel: Depicted with a residential structure and two small associated structures	Undeveloped and residential	Undeveloped and residential
1906	At this time, Firmin Street is called Fireman. Northern Parcel: Depicted with a residential structure and shed. Central Parcel: Depicted with a vacant residential structure. Southern Parcel: Depicted with a residential structure and small associated structure.	Undeveloped and residential	Undeveloped and residential

Year	Subject Property	Notable Adjoining Property Observations	Notable Observations of the Surrounding Area
1950, 1953, 1954, 1957, 1960, 1964, 1965, 1968, and 1970	Northern Parcel: Depicted with a residential structure and associated auto garage. Central Parcel: Depicted with a residential structure. Southern Parcel: Depicted with a residential structure and associated auto garage.	Residential and commercial	Residential and commercial

Sanborn maps indicated the following historical street addresses associated with the subject property: 418, 426 and 430 Firmin Street, 25 and 368 Park Place, and 25 and 368 Fireman. These addresses were researched during the completion of this report.

4.5 Historical Summary

4.5.1 Subject Property

According to EFI Global, Inc.'s interpretation of the historical research data, the subject property is comprised of three parcels, north, central, and south. The three parcels underwent distinct development patterns as described below.

Northern Parcel: The northern parcel of the subject property (430 Firmin Street) was developed with a small structure sometime prior to 1890. By 1894 the property was developed with the existing residential structure and a shed. The subject property remained in the same configuration until at least 1950 when the shed was demolished and the existing private auto garage was developed. The property has remained in the same configuration to the present.

Central Parcel: The central parcel of the subject property (426 Firmin Street) was undeveloped land prior to 1890. The property remained undeveloped until at least 1906 when it was developed with a structure. By 1927 the structure was demolished the the property was vacant land. The property remained vacant until at least 1938. By 1948 the property was developed with a residential structure. The property remained in the same configuration until 1983 when the residential structure was demolished and the property was vacant. The property has remained vacant to the present.

Southern Parcel: The southern parcel of the subject property (418 Firmin Street) was developed with a residential structure and two associated sheds sometime prior to 1890. The property remained in the same configuration until at least 1906. Sometime prior to 1950 the residential structure was altered to reflect the existing configuration and a private auto garage was constructed. The property has remained in the same configuration to the present.

Historical occupants of all three parcels have all been residential in nature.

- Historical records indicate that oil exploration occurred on the central and southern parcels in the 1940's. For further discussion see Section 6.1.

4.5.2 Adjoining and Immediately Surrounding Properties

According to EFI Global, Inc.'s interpretation of the historical research data, the adjoining and immediately surrounding properties were undeveloped or developed for residential use sometime prior to 1890. By 1948 the adjoining and surrounding properties were developed with residential and commercial structures and have remained for the same use to the present.

4.5.3 Surrounding Area

According to EFI Global, Inc.'s interpretation of the historical research data, the surrounding area was undeveloped or developed for residential use sometime prior to 1890. Over time, residential and commercial development increased to reflect the present day configuration.

4.6 Historical Data Gaps

The earliest historical resource obtained during this investigation was a Sanborn map from 1890 which indicated development of the subject property for residential use. The lack of historical data sources for the subject property dating back to first developed uses represents historical data source failure. However, it is assumed that prior to 1890, the subject property would have been developed for residential use, if not undeveloped. Based on this notion, this limitation is not expected to significantly alter the findings of this investigation.

5.0 REGULATORY DATABASE REPORT

A radial database search was conducted in accordance with the specifications defined in ASTM E 1527-13 which sets the radial search distances for each regulatory database. The radial database search was conducted by EDR on May 22, 2017. A copy of the database report is presented in Appendix II of this report. The following table summarizes required databases reviewed, the approximate search distances, and indicates if the subject site, adjoining/immediately surrounding properties or surrounding sites are listed on the respective database.

Following the table are summaries of the information found in the relevant database listings and our opinion regarding the potential for the subject property to be impacted. Our opinion is based on the information found in the database listings, through other historical and regulatory resources, "Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions" (ASTM E2600-15), and assumed groundwater flow direction. As discussed in Section 2.3, Groundwater is estimated to be less than 10 feet below ground surface in the area of the site and is assumed to flow towards the southwest.

DATABASE	Search Distance (Miles)	Subject Site (Yes/ No)	Adjacent Site (Yes/ No)	Total Listings (#)
Federal National Priorities List (NPL)	1.0	No	No	0
Federal De-listed NPL	1.0	No	No	0
Federal CERCLIS	0.5	No	No	0
Federal CERCLIS NFRAP	0.5	No	No	1
Federal RCRA CORRACTS	1.0	No	No	0
Federal RCRA non-CORRACTS TSD	0.5	No	No	0
Federal RCRA Generators	0.25	No	No	10
Federal Institutional/Engineering Controls	0.5	No	No	0
Federal ERNS	Property	No	No	0
State/Tribal Equivalent NPL	1.0	No	No	1
State/Tribal Equivalent CERCLIS	1.0	No	No	34
State/Tribal Landfill	0.5	No	No	1
State/Tribal Underground Storage Tank (UST)	0.25	No	No	17
State/Tribal Leaking Underground Storage Tank (LUST/SLIC)	0.5	No	No	17
State/Tribal Institutional/Engineering Controls	0.5	No	No	0
State/Tribal Voluntary Clean-up Sites	0.5	No	No	4
State/Tribal Brownfield Sites	0.5	No	No	0

5.1 Subject Property

The subject property is not listed on any of the regulatory databases researched.

5.2 Adjoining and Immediately Surrounding Properties

Theo Gonzales (1200 Temple AL) - The east immediately surrounding property (hydrologically up-gradient) of the subject property is listed on the EDR US Historical Auto Station (EDR US Hist Auto Stat)

database. According to the database listing, JA Ford operated a gasoline service station on the property in at least 1937 and Theo Gonzales operated a gasoline service station on the property in at least 1942. Based on the lack of evidence of a documented release and subsequent redevelopment for residential use, this listing is not expected to represent a significant environmental concern for the subject property.

5.3 Surrounding Area

In our opinion, none of the other sites listed on the regulatory database report pose a significant threat to the subject property as there is no indication of a release at the respective sites, a release has occurred but groundwater has not been impacted, a release has occurred but the case is closed, or the sites are located cross or down gradient of the subject property and in excess of 1/10 mile from the subject property.

5.4 Orphan Sites

Orphan sites are unmappable sites which appear in a list form in the Radius Map Report rather than on the standard Radius Map. Three orphan sites were identified in the Radius Map Report prepared for this site. The sites were manually mapped to determine the location of the site relative to the subject property and groundwater gradient. The following conclusions were made:

In our opinion, none of the orphan sites listed pose a significant threat to the subject property as there is no indication of a release at the respective sites, a release has occurred but groundwater has not been impacted, a release has occurred but the case is closed, or the sites are located cross or down gradient of the subject property and in excess of 1/10 mile from the subject property.

6.0 AGENCY FILE REVIEWS

6.1 State Agencies

The regional offices of the Los Angeles Regional Water Resources Control Board (LARWQCB), Department of Toxic Substances Control (DTSC), and South Coast Air Quality Management District (SCAQMD) were contacted regarding permits and site investigation files for the subject property. Additionally, the State Water Resources Control Board (SWRCB) online GeoTracker database, SCAQMD online Facility INformation Detail (FIND) database, and DTSC online EnviroStor and Hazardous Waste Tracking System (HWTS) databases were searched for information on the subject property to identify any evidence of previous or current hazardous material usage.

- According to responses to our requests from DTSC, SCAQMD and LARWQCB, there are no files for the subject property. Furthermore, a review of the Geotracker, EnviroStor, FIND, and HWTS databases found no files for the subject property.

The Division of Oil, Gas, and Geothermal Resources (DOGGR) Online Mapping System was reviewed for information pertaining to oil and gas exploration on or nearby the subject property.

- The California Division of Oil, Gas, and Geothermal Resources (DOGGR) regulate the drilling, operation, maintenance, plugging, and abandonment of oil, natural gas, and geothermal resources throughout the State of California. According to the map reviewed, two oil wells appear to be located on the subject property.
- The former oil production activities on the subject property represent an environmental concern for the subject property due to common practices associated oil exploration and production activities. During the drilling of wells, a large volume of drilling cuttings is generated, which are typically deposited into nearby excavation pits. In addition, surficial releases can occur during drilling activities. Records from the well located on 418 Firmin Street indicate an abandoned well was discovered on the property driveway. The well API Number, Operator, and Well Number are: 03723873, H. Rogalske, and 1-1. The well was re-abandon on May 3, 1941 by filling the well hole with mud puddled water and cement. No staining or cuttings pits were observed in aerial photographs. No other records were available. The well located on 426 Firmin Street API Number, Operator, and Well Number are: 03725670, H. Rogalske, and 2A. The former onsite oil production activities at the subject property are considered a recognized environmental condition (REC) for the subject property.

6.2 City/County Agencies

The Los Angeles Fire Department Hazardous Materials Records (LAFD HazMat), Los Angeles Fire Department Underground Tanks (LAFD UST), Los Angeles Fire Department Arson Division (LAFD AD), Los Angeles County Department of Health Services Public Health Investigations (LACDHS PHI), and City of Los Angeles Bureau of Sanitation (LABS) were contacted regarding hazardous materials, underground storage tank, and industrial waste discharge records for the subject property.

- According to our response from LACDHS PHI and LABS, no records were found for the subject property.
- Additionally, a search of the NavigateLA online substructure maps database was conducted, and no substructure equipment, such as tanks, were depicted in association with the subject property.

6.3 Agency File Review Limitations

At the time of this report was issued, no response has been received from LAFD HazMat, LAFD AD, and LAFD UST. Based upon responses from other agencies and additional historical information, this is not considered a significant data gap and is not expected to significantly alter the conclusions of this report. Nonetheless, should relevant information be obtained from these agencies subsequent to issuing this report, an addendum will be prepared and provided to the Client.

7.0 NON-SCOPE ENVIRONMENTAL RISKS

ASTM Standard E1527-13 identifies additional conditions which, should they exist at the subject property, may create a human health risk to the occupants of the site. These risks may also create additional costs to the property owner in the form of identification, operations & maintenance, and cleanup or remediation.

7.1 Asbestos Containing Building Materials

Asbestos is a group of naturally occurring minerals used in many products, including building materials vehicle brakes, insulation and other products that require resistance to heat and corrosion. Asbestos includes: chrysotile, amosite, crocidolite, tremolite asbestos, anthophyllite asbestos, actinolite asbestos, and any of these materials that have been chemically treated and/or altered.

The inhalation of asbestos fibers by workers can cause cancer and other serious diseases of the lungs and other organs that may not appear until years after the exposure has occurred. For instance, asbestosis can cause a buildup of scar-like tissue in the lungs and result in loss of lung function. Asbestos fibers associated with these health risks are too small to be seen with the naked eye, and smokers are at higher risk of developing some asbestos-related diseases.

Asbestos-containing materials (ACM) do not always pose a hazard to occupants and workers in buildings that contain these materials. Intact, undisturbed ACMs generally do not pose a health risk. ACMs may become hazardous and pose an inhalation risk when they are damaged, disturbed in some manner, or deteriorate over time and asbestos fibers are released into building air.

ACM can be found in a multitude of building products which include decorative and acoustical plaster texture, fire-proofing (Monokote), joint compound, attic and wall insulation, resilient floor covering, mastic, recessed lighting fixtures, wiring, elevator brakes, fire doors, pipe insulation, pipe gaskets, duct insulation, duct tape, siding and roofing materials (tar/shingles), textured paint, stucco, concrete, asphalt underlayment (Petromat) and plaster.

Local jurisdictions have specific laws and regulations regarding asbestos and actions including building renovations and building demolition.

- Based on the age of the onsite structure, there is a potential for asbestos containing building materials at the site, however, no testing was completed as part of this report. Potential ACM observed during the site reconnaissance include: wood and drywall partitions, tile and associated mastic, and acoustic ceiling texture. Potential ACM appeared to be in good condition.

7.2 Lead-Based Paint

Although the use of lead-based paint in residential structures has been prohibited since 1978, it may still be used in commercial and industrial buildings. It is approximated that 80 percent of buildings built prior to 1978 contain lead paint. Even at low levels, lead poisoning can cause IQ deficiencies, reading and learning disabilities, impaired hearing, reduced attention spans, hyperactivity and other behavior problems with children under 6 years old being most at risk.

Lead is a highly toxic metal that was used for many years in products found in and around our homes and commercial buildings. Lead can be found in dust from friction surfaces of windows and doors that are painted with lead-based paint and from building components coated with lead-based paint that has begun peeling, flaking and chalking. There is also the potential for soil to have elevated lead levels due to leaching

from lead based paint on nearby structures and deposition of airborne lead when leaded fuel was in use prior to the 1976 ban and phase out.

Since the 1980's, lead has been phased out in gasoline, reduced in drinking water, reduced in industrial air pollution, and banned or has been limited in use in consumer products.

Between the local, State and Federal agencies, including the Environmental Protection Agency (EPA), Department of Housing and Urban Development (HUD), Occupational Safety & Health Administration (OSHA) and the California Department of Public Health (CDPH), each state has various action limits that have been enacted with the intent to prevent human exposure and contamination of the surrounding environment.

- Based on the age of the onsite structure, there is a potential for lead based paint at the site. Observed painted surfaces appeared to be in good condition; however, a lead based paint survey is recommended prior to major renovation or demolition activities.

7.3 Radon

Radon is a radioactive gas that has been found in structures all over the United States. Radon is produced from the natural breakdown of uranium in soil, rock, and water. Radon typically moves up through the ground and into structures through cracks and other holes in the foundation. Movement of radon through the earth is strongly influenced by moisture content and permeability of soil, porosity, and degree of fracturing in rocks, as well as surface meteorological conditions. High levels of radon have been discovered in every state.

Radon cannot be seen, smelled, or tasted. Breathing air-containing radon may increase the risk of getting lung cancer. The Surgeon General of the United States has warned that radon is the second leading cause of lung cancer in the United States today after smoking.

Testing for the presence of radon is fairly inexpensive, simple and is the only way to be certain of the on-site concentrations. Various types of sampling methods exist to determine the concentration. On-site radon sampling was not performed during the completion of this assessment.

- Based on research by the United States Environmental Protection Agency (USEPA), the average radon concentrations for Los Angeles County are between 2.0 picoCuries per liter (pCi/L) and 4.0 pCi/L, below the 4.0 pCi/L action level set by the USEPA; however, site specific radon levels vary greatly within the EPA radon zones and on-site radon measurements would need to be collected in order to determine the radon levels at the subject property.

7.4 Wetlands

According to the Clean Water Act, a wetland is “those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.” Wetland areas have been identified as ecologically diverse and sensitive areas and are generally subject to more stringent development, re-development, and building regulations.

- The U.S. Fish and Wildlife Service National Wetlands Inventory was reviewed to determine if the subject property is situated within an identified wetland. According to the USFWS, the subject property is not located within a wetland area.

7.5 Mold

Mold and mildew are simple, microscopic organisms in the Fungi kingdom that can grow virtually anywhere if they have adequate moisture, nutrients, air and appropriate temperatures. Depending on the particular mold or fungus, growing colonies can be almost any color. Most household molds and fungi (mildews) are white, black, grey, or brown colored. Spores of dozens of kinds of mold and fungus (mildew) are present at all times in indoor and outdoor air. These spores can settle, germinate and grow wherever good growth conditions are found. They can grow on soil, plants, dead plant materials, foods, fabrics, paper, wood and many other materials found within buildings. Many molds are not harmful and actually have a beneficial role in the environment and in living systems. In soil, molds play a crucial part in decomposition of organic matter and in making nutrients available to plants.

When mold and fungi (mildews) growth occurs in buildings, it can be very destructive to the materials on which they grow and cause high levels of airborne mold spores and volatile organic compounds associated with the characteristic musty / moldy odor. They cause staining, decomposition (rotting of materials) and objectionable, musty odors. Where colonies are extensive they can also produce enough spores, and by-products to be harmful to health. Many of the by-products of mold and fungus (mildew) are irritating to skin, eyes and respiratory tracts. Some molds produce true allergic sensitization and allergic reactions in susceptible people. Some molds produce toxic by-products that could be harmful to skin, and poisonous if ingested or inhaled in quantity. Persons with compromised immune systems may even experience systemic fungal infections of the respiratory tract.

EFI Global, Inc. observed a limited amount of interior areas of the subject buildings in order to identify the significant, visible presence of mold. This activity was not intended to discover all areas which may be affected by mold growth at the subject property. Potential areas of mold not observed as part of this limited assessment, include but are not limited to, pipe chases, HVAC systems and within enclosed wall and ceiling cavities that may be present in the subject property. A complete mold assessment, which may include various types of sampling, would be required to determine if mold levels within the subject buildings are at levels acceptable by industry standards.

- EFI Global, Inc. did not observe visible or olfactory indications of the presence of mold, nor did EFI Global, Inc. observe obvious indications of significant water damage. No sampling was conducted as part of this assessment.

7.6 Methane Gas

In response to growing concern regarding methane intrusion into buildings and to the potential for methane build-up underneath buildings, certain municipalities have established methane requirements for structures based on the proximity to oil wells and landfills. If a subject property is located in the proximity of active or abandoned oil wells or landfills, methane mitigation devices installed prior to construction activities at a subject property may be necessary.

- The City of Los Angeles Department of Building and Safety methane zone data was reviewed to determine if the subject property is located in a methane or methane buffer zone. According to the information reviewed, the subject property is located within a methane zone. Therefore testing for the presence of methane and the installation of methane mitigation systems at the property prior to construction activities may be necessary. (Division 71 of the Los Angeles Building Code).

8.0 FINDINGS

EFI Global, Inc. has performed a Phase I Environmental Site Assessment (Phase I) for The Decro Corporation (Client) for a residential and vacant property located at 418, 426, and 430 Firmin Street, in Los Angeles County and the City of Los Angeles, California, Assessor's Parcel Numbers: 5160-022-012, 5160-022-006, and 5160-006-007. The research conducted for this study and the report prepared are in conformance with the United States Environmental Protection Agency (USEPA) All Appropriate Inquiry (AAI) standard and the American Society for Testing and Materials (ASTM) E 1527-13 scope of work.

8.1 CONCLUSIONS

EFI Global, Inc. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice 1527-13, at 418, 426, and 430 Firmin Street, Los Angeles, California, the subject property. Any exceptions to or deletions from this practice are described in the individual sections of this report. This assessment has revealed no evidence of recognized environmental conditions or *de minimis* conditions in connection with the subject property, except for the following:

Recognized Environmental Condition (REC)

The historical on-site oil exploration and production activities circa 1941, including drilling, are considered a REC for the subject property.

Historical Recognized Environmental Condition (HREC)

In our opinion, no HRECs were identified during the course of this assessment.

Controlled Recognized Environmental Condition (CREC)

In our opinion, no CRECs were identified during the course of this assessment.

De Minimis Condition

In our opinion, no *de minimis* conditions were identified during the course of this assessment.

8.2 RECOMMENDATIONS

Based on the foregoing, a Phase II Environmental Site Assessment is recommended.

9.0 SIGNATURES

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By: Date: June 9, 2017



James Johnston
Project Manager

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Reviewed By: Date: June 9, 2017



Nicole Rivera
Senior Project Manager

10.0 REFERENCES

ASTM, 2013. Subcommittee E50.2 Commercial Real Estate Transactions, “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process”, Designation E1527-13, West Conshohocken, PA 35pp.

ASTM, 2015. Subcommittee E50.2 on Real Estate Assessment and Management, “Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions”, Designation E2600-15, West Conshohocken, PA 34pp.

Environmental Data Resources, Inc., 2017. The EDR – Radius Map with GeoCheck®, Inquiry No. 4943971.2s , Shelton CT, 700 pp.

Environmental Data Resources, Inc., 2017. The EDR – City Directory Abstract, Inquiry No. 4943971.5 , Shelton CT, 77 pp.

Environmental Data Resources, Inc., 2017. Sanborn® Map Report, Inquiry No. 4943971.3 , Shelton CT 18 pp.

Environmental Data Resources, Inc., 2014. The EDR – Aerial Photography Print Service, Inquiry No. 3867549.8 Shelton CT, 16 pp.

California Department of Conservation, Division of Mines and Geology - http://gmw.consrv.ca.gov

California Department of Conservation, California Geologic Survey - http://www.consrv.ca.gov/CGS

California Department of Water Resources, Individual Basin Descriptions -http://www.groundwater.water.ca.gov/bulletin118

EnviroStor- http://www.envirostor.dtsc.ca.gov/public/

GeoTracker - http://geotracker.waterboards.ca.gov/

Google Earth - http://earth.google.com/

Los Angeles County Office of the Assessor - http://maps.assessor.lacounty.gov/

Navigate LA - http://navigatela.lacity.org/

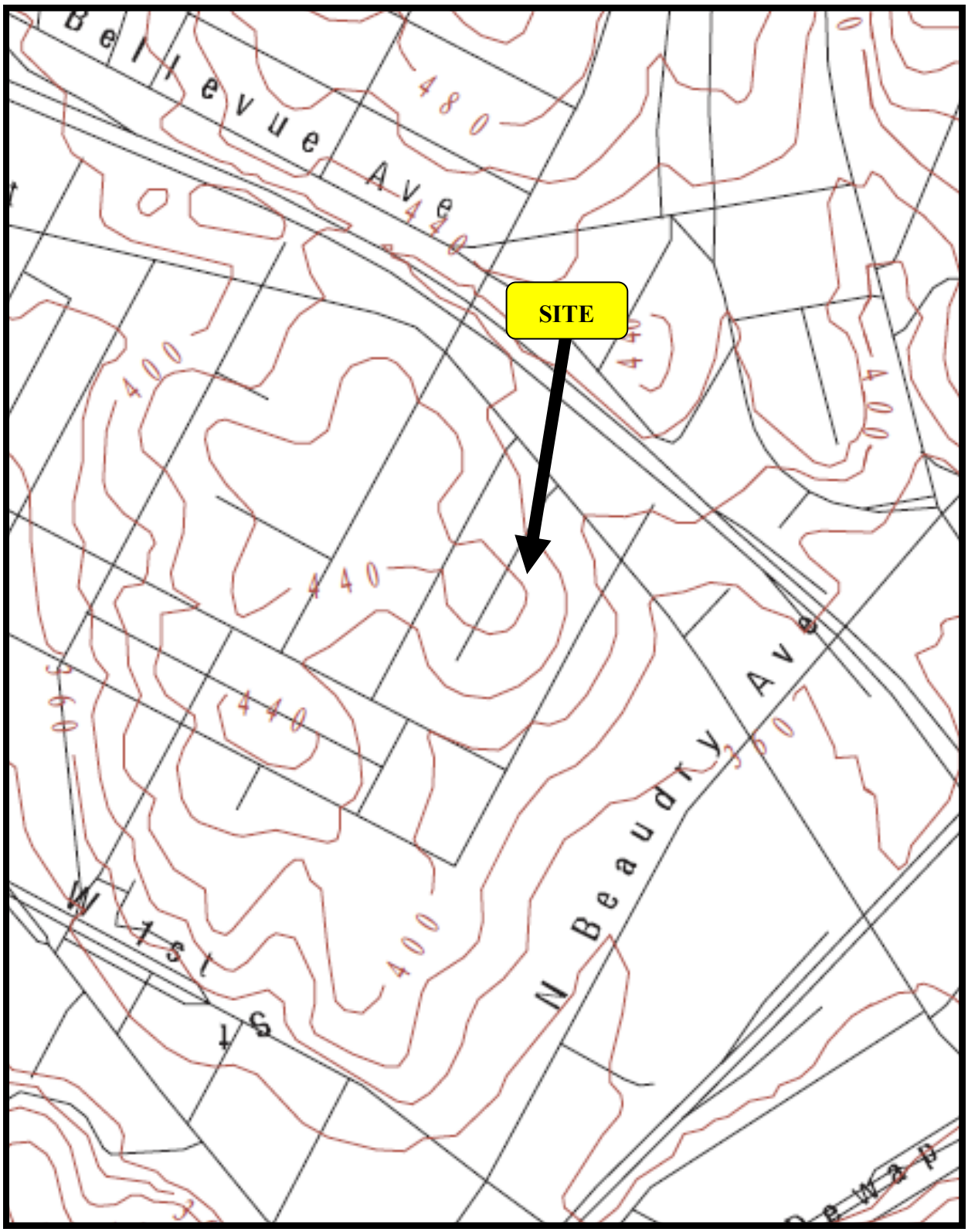
Hazardous Waste Tracking System - http://hwts.dtsc.ca.gov/report_search.cfm?id=5

Facility Information Detail - http://www3.aqmd.gov/webappl/fim/prog/search.aspx

APPENDIX I

ILLUSTRATIONS

Figure 1: TOPOGRAPHIC MAP

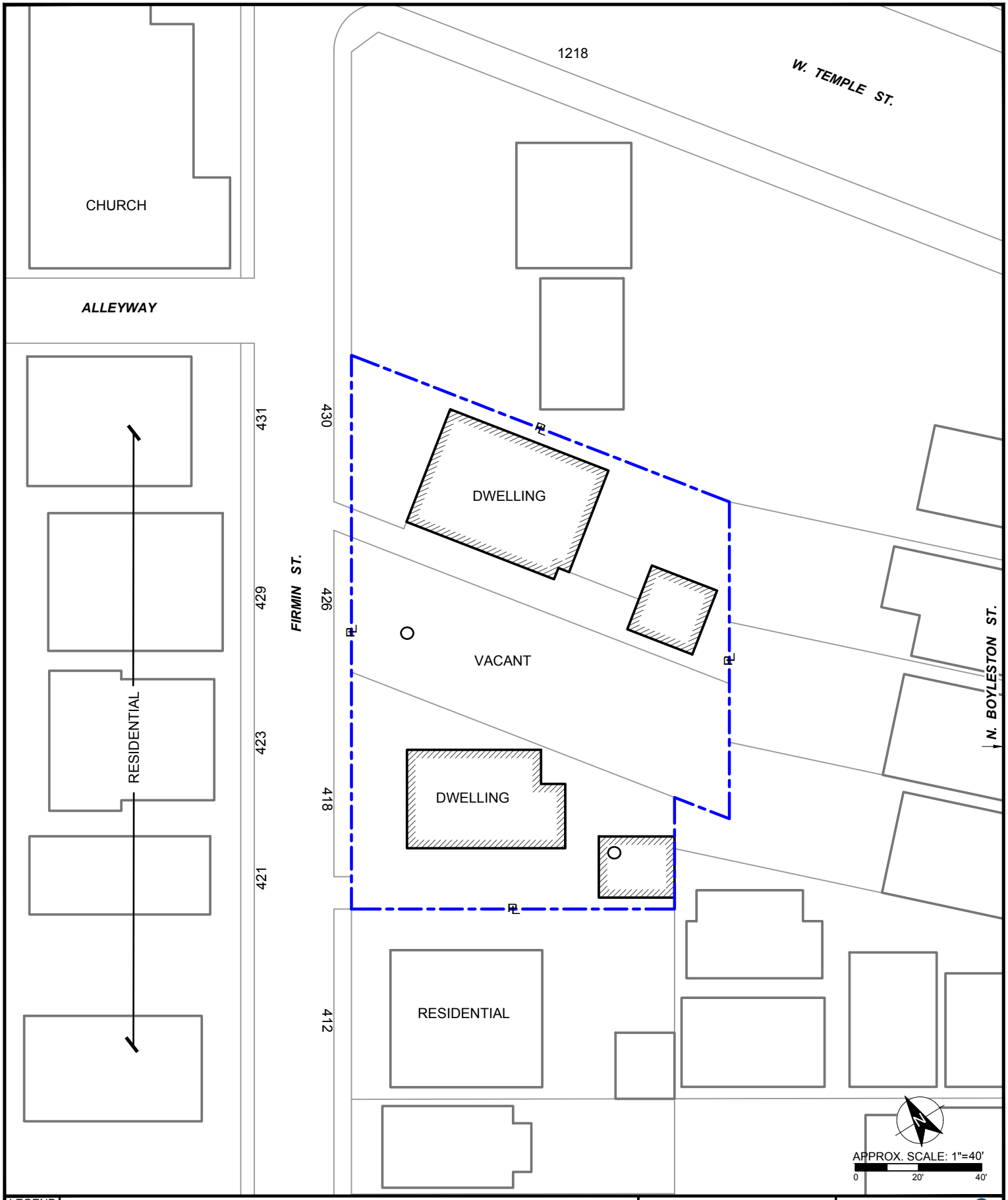


SOURCE: USGS HOLLYWOOD, CA 7.5 MINUTE QUADRANGLE MAP

Figure 2: SITE LOCATION MAP



SOURCE: GOOGLE ©



LEGEND

PL PROPERTY LINE

SUBJECT STRUCTURE

APPROXIMATE WELL LOCATION

SITE PLAN

418, 426 & 430 FIRMIN ST.
LOS ANGELES, CA 90026

EFI Global
Engineering, Fire & Environmental Services

PN:9836002375	FIGURE 3
DT: 5/22/2017	
DB: JE CB: JJ	

\\aefs02\current\AE 2017\Projects 2017\98360 Projects 2017\9836002375_418 426 430 Firmin St Los Angeles CA 90026_PH I\9836002375_CAD\9836002375_SitePlan

Figure 4: SITE PHOTOGRAPHS



Photo 1: View of 418 Firmin Street.



Photo 2: View of 430 Firmin Street.

Figure 4: SITE PHOTOGRAPHS



Photo 3: View of 426 Firmin Street.



Photo 4: View facing Firmin Street.

Figure 4: SITE PHOTOGRAPHS



Photo 5: View of 418 Firmin Street driveway.



Photo 6: View of kitchen.

Figure 4: SITE PHOTOGRAPHS

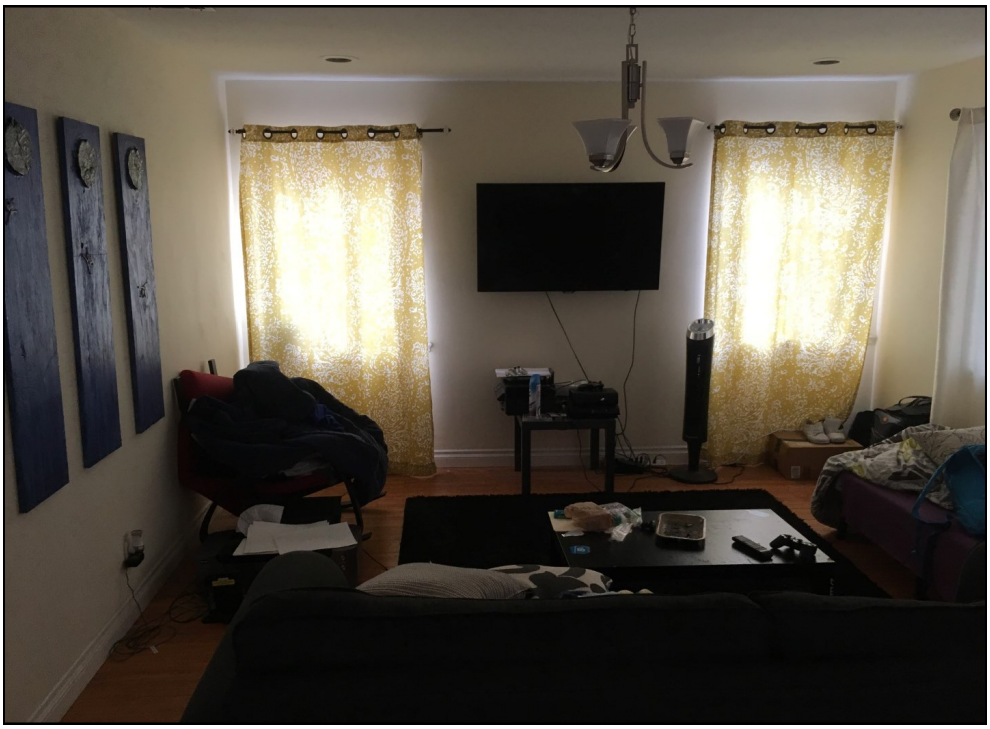


Photo 7: View of living room.



Photo 8: View of 418 Firmin Street backyard.

Figure 4: SITE PHOTOGRAPHS



Photo 9: View of detached garage and swale.



Photo 10: View of garage interior.

Figure 4: SITE PHOTOGRAPHS



Photo 11: View of driveway.



Photo 12: View of west adjoining property.

Figure 4: SITE PHOTOGRAPHS

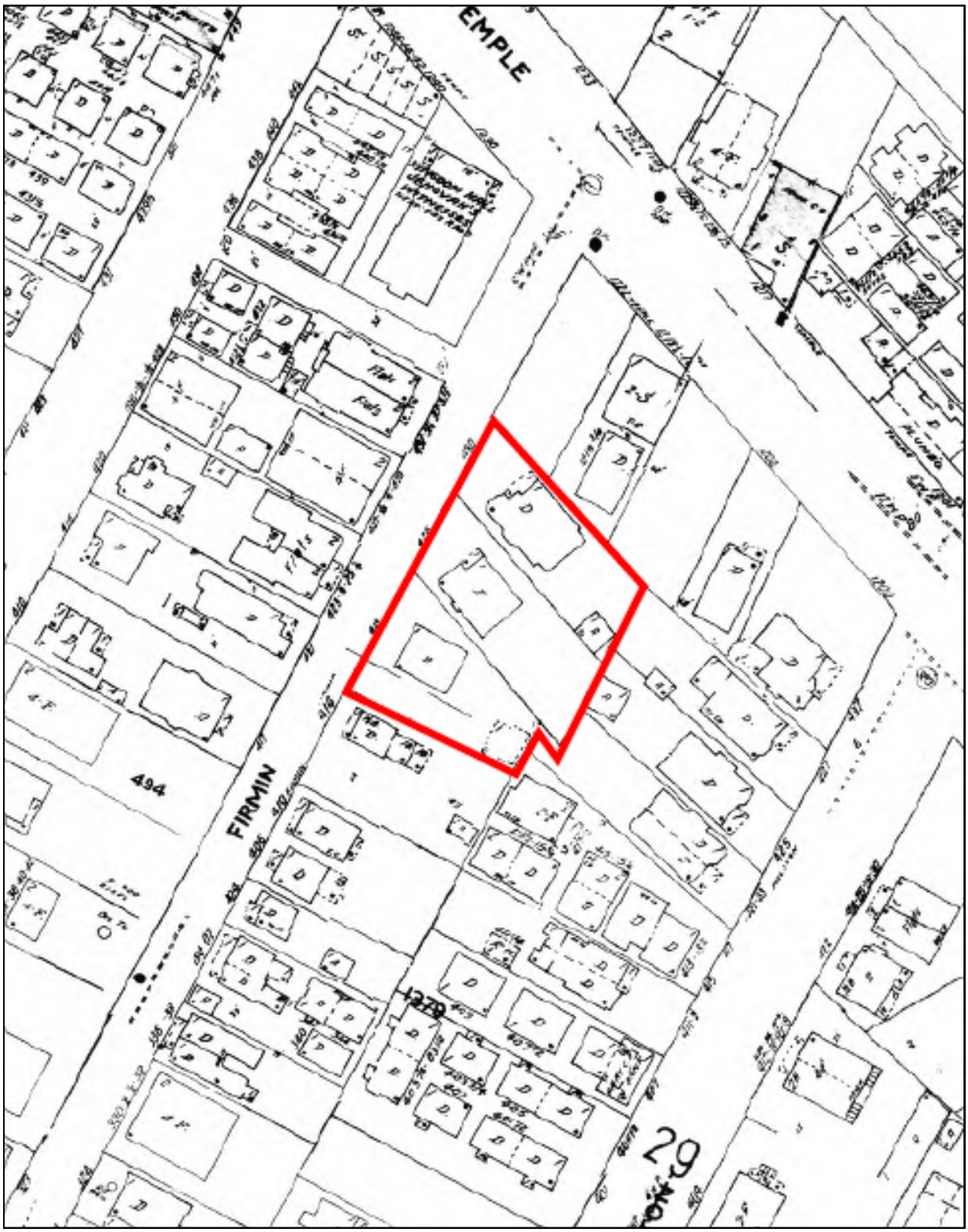


Photo 13: View of southwest adjoining properties.



Photo 14: View of north adjoining properties.

Figure 5: 1970 SANBORN MAP



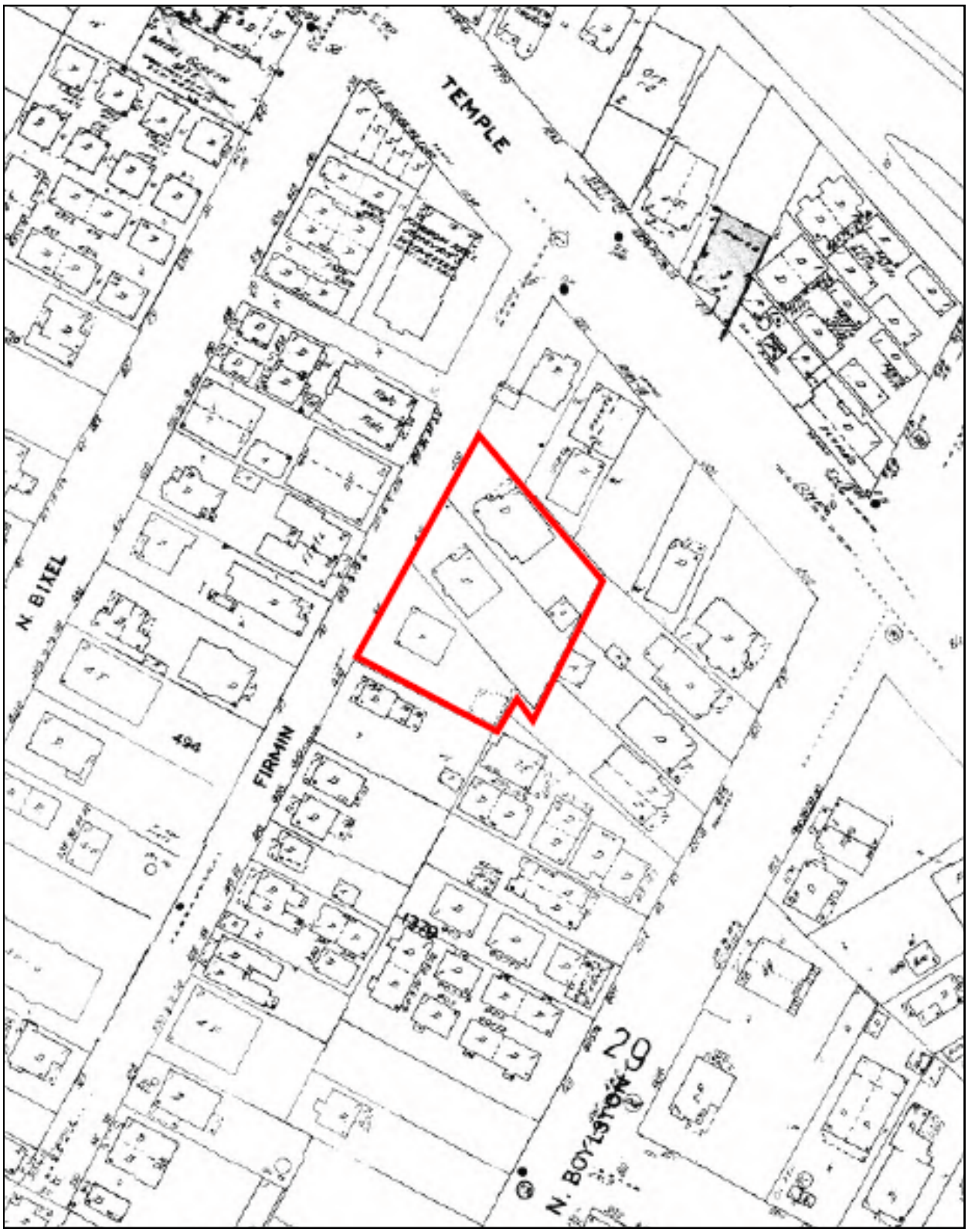
SOURCE: EDR

Figure 5: 1965 SANBORN MAP



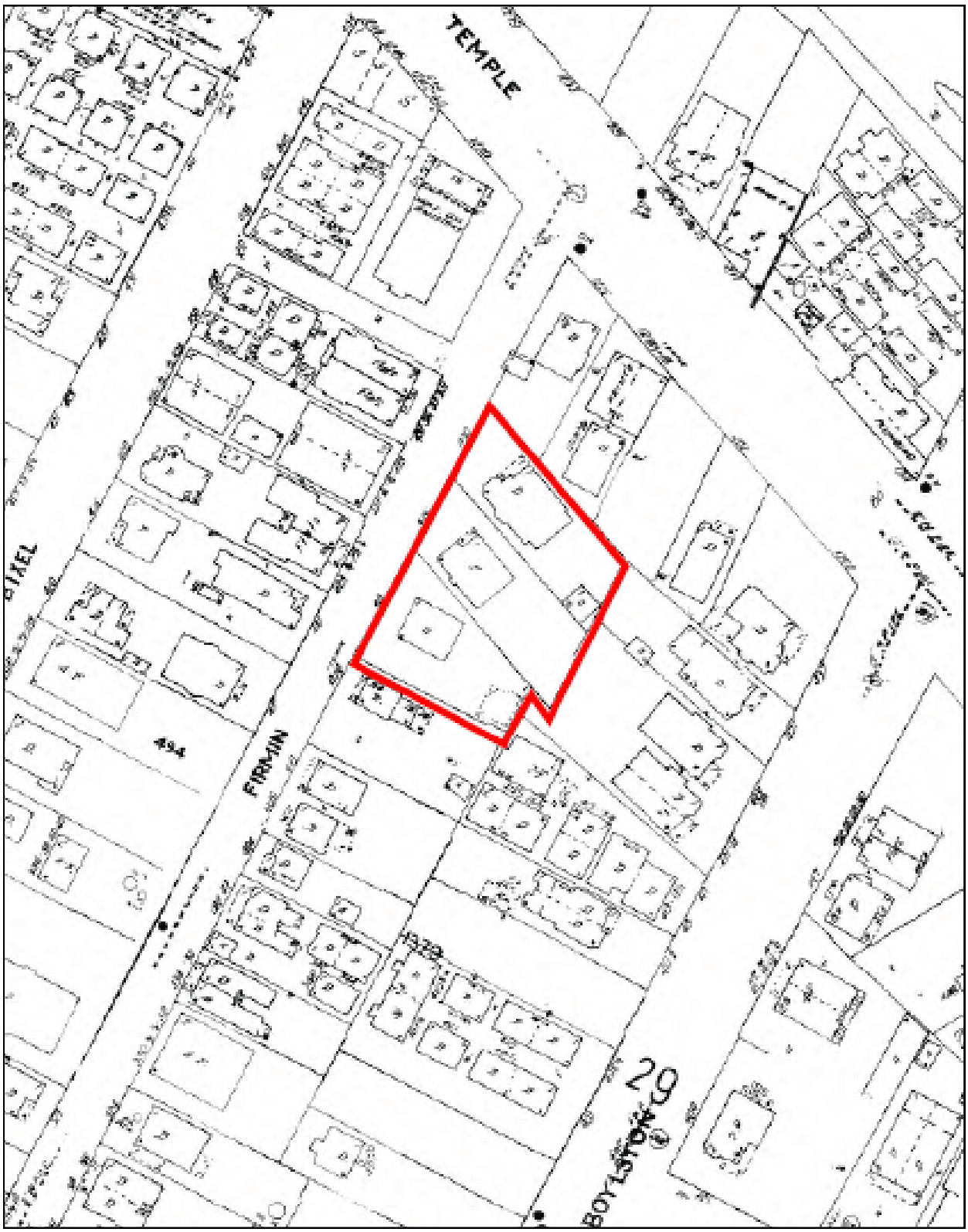
SOURCE: EDR

Figure 5: 1960 SANBORN MAP



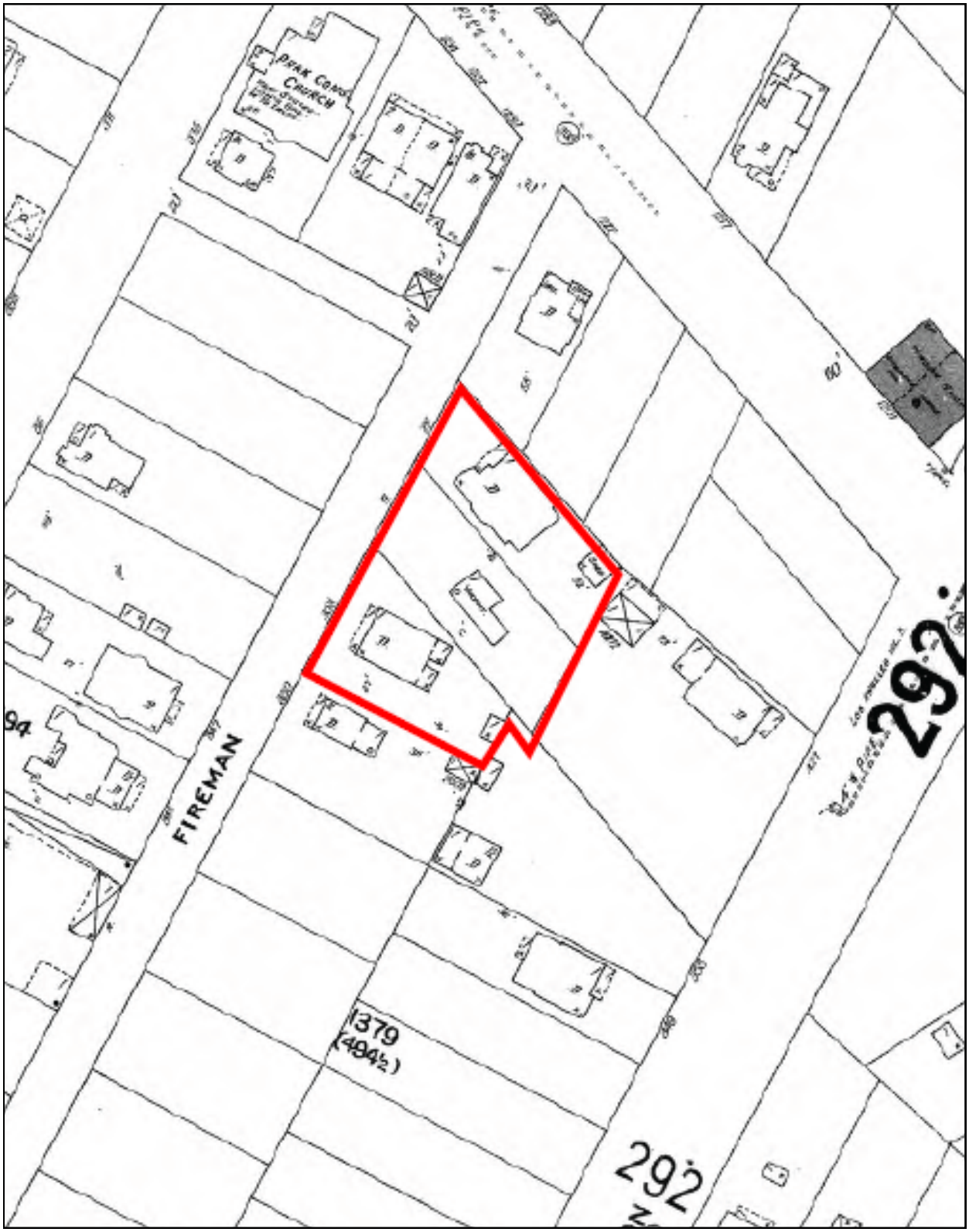
SOURCE: EDR

Figure 5: 1954 SANBORN MAP



SOURCE: EDR

Figure 5: 1906 SANBORN MAP



SOURCE: EDR

Figure 5: 1890 SANBORN MAP



SOURCE: EDR

APPENDIX II

RADIUS MAP REPORT

9836002375
418 Firmin St
Los Angeles, CA 90026

Inquiry Number: 4943971.2s
May 22, 2017

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Map Findings Summary	4
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Orphan Summary	287
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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

418 FIRMIN ST
LOS ANGELES, CA 90026

COORDINATES

Latitude (North):	34.0647960 - 34° 3' 53.26''
Longitude (West):	118.2536000 - 118° 15' 12.96''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	384314.7
UTM Y (Meters):	3769854.8
Elevation:	426 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630741 HOLLYWOOD, CA
Version Date:	2012
East Map:	5630795 LOS ANGELES, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140515, 20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
418 FIRMIN ST
LOS ANGELES, CA 90026

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	GONZALES THEO	1200 TEMPLE AL	EDR Hist Auto	Lower	121, 0.023, East
A2	PALAIS ISRAEL	1245 TEMPLE AL	EDR Hist Cleaner	Lower	276, 0.052, North
A3	WASSERMAN ISADOR	1249 TEMPLE AL	EDR Hist Cleaner	Lower	303, 0.057, North
A4	DOWNTOWN AUTO SERVIC	1243 W TEMPLE ST	EDR Hist Auto	Lower	328, 0.062, North
B5	EUNICE KLEIN	327 N BIXEL	RCRA-SQG, FINDS, ECHO	Lower	402, 0.076, WSW
C6	HANSON LAWRENCE	1139 TEMPLE AL	EDR Hist Auto	Lower	455, 0.086, ESE
C7	VIERTELS AUTOMOTIVE	1155 W TEMPLE ST	RCRA-SQG, FINDS, ECHO, HAZNET	Lower	465, 0.088, ESE
C8	WRIGHT J H	1155 TEMPLE AL	EDR Hist Auto	Lower	465, 0.088, ESE
C9	JAFFE JOS	1135 TEMPLE AL	EDR Hist Cleaner	Lower	510, 0.097, ESE
C10	SCHLOTT DAVID	1130 TEMPLE AL	EDR Hist Auto	Lower	520, 0.098, SE
C11	VICTOR RECYCLING CEN	1127 W TEMPLE ST	SWRCY	Lower	562, 0.106, ESE
D12	EDGEWARE CLEANERS	1276 TEMPLE ST	EDR Hist Cleaner	Higher	567, 0.107, NNW
B13	KRAMER TRUST PROPERT	230 ANGELINA	HIST CORTESE	Higher	613, 0.116, West
E14	BRUCE W MANLEY	1246 COURT ST	RCRA-SQG	Lower	719, 0.136, SW
E15	1260	1260 W. COURT ST	US BROWNFIELDS	Lower	754, 0.143, WSW
D16	LOS ANGELES FIRE STA	534 W EDGEWARE RD	SWEEPS UST, CA FID UST	Lower	777, 0.147, NNW
D17	LA FIRE STATION 6	534 E EDGEWARE RD	RCRA-SQG, FINDS, ECHO	Lower	777, 0.147, NNW
D18	FIRE STATION #6	534 E EDGEWARE RD	HIST UST	Lower	777, 0.147, NNW
D19	FIRE STATION 6	536 E EDGEWARE RD	HIST UST	Lower	781, 0.148, NNW
F20	LA UNI SCH DIST, PLA	1321 CORTEZ ST	ENVIROSTOR, SCH, EMI	Higher	801, 0.152, NW
F21	LOS ANGELES USD PLAS	1321 CORTEZ ST	RCRA-SQG, FINDS, ECHO	Higher	801, 0.152, NW
22	VALLEY KITCHEN & BAT	13717 VICTORY BLVD	SWEEPS UST	Lower	826, 0.156, ENE
23	COURT ST	1272-1276 W. COURT S	US BROWNFIELDS	Higher	894, 0.169, WSW
G24	ROYBAL LEARNING CENT	1200 W COLTON ST	RCRA-LQG	Lower	990, 0.188, SSW
G25	LAUSD - EMERGENCY OP	1212 COLTON ST	AST	Lower	991, 0.188, SSW
F26	EARLY CHILDHOOD EDUC	1360 W TEMPLE ST	RCRA-LQG	Lower	1071, 0.203, NW
H27	BANK OF AMERICAN DAT	1000 TEMPLE	HIST UST, HIST CORTESE	Lower	1159, 0.220, SE
H28	BANK OF AMERICA NT&S	1000 W TEMPLE ST	AST	Lower	1159, 0.220, SE
H29	BANK OF AMERICA -DAT	1000 W TEMPLE ST	HIST UST, HAZNET	Lower	1159, 0.220, SE
H30	BANK OF AMERICA DATA	1000 TEMPLE ST W	LUST	Lower	1159, 0.220, SE
H31	BANK OF AMERICA DATA	1000 W TEMPLE ST	ENVIROSTOR, SWEEPS UST, CA FID UST, EMI	Lower	1159, 0.220, SE
H32		1000 W TEMPLE ST., #	AST	Lower	1159, 0.220, SE
I33	MARLAND CO.	538 BEAUDRY	SLIC	Lower	1221, 0.231, East
I34	MARLAND CO	538 N. BEAUDRY AVE	SLIC	Lower	1221, 0.231, East
I35	MARLAND COMPANY	1100-1154 BELLEVUE A	LUST	Lower	1226, 0.232, East
J36	1346 W. COURT ST	1346 W. COURT ST	US BROWNFIELDS	Lower	1240, 0.235, West
K37	METROPOLITAN WATER D	1111 SUNSET BLVD	RCRA-SQG, FINDS, ECHO	Lower	1258, 0.238, ENE
K38	WATER DISTRICT OF SO	1111 W SUNSET BLVD	SWEEPS UST, CA FID UST, HAZNET	Lower	1258, 0.238, ENE
K39	WATER DISTRICT OF SO	1111 W SUNSET BLVD	UST	Lower	1258, 0.238, ENE

MAPPED SITES SUMMARY

Target Property Address:
418 FIRMIN ST
LOS ANGELES, CA 90026

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
J40	1352 COURT ST	1352 W. COURT ST	US BROWNFIELDS	Lower	1267, 0.240, West
J41	1350 COURT	1350 W. COURT ST	US BROWNFIELDS	Lower	1274, 0.241, West
42	LA FRIENDS CHILD CAR	707 KENSINGTON RD	RCRA-SQG, FINDS, ECHO	Higher	1282, 0.243, NNE
43	CVS PHARMACY #9674	1050 WEST SUNSET BOU	RCRA-LQG, FINDS, ECHO	Lower	1284, 0.243, East
44	BRUCE MANLEY	152 N TOLUCA ST	SWEEPS UST, CA FID UST	Lower	1314, 0.249, WSW
45	KATHLEEN ROSS PROPER	1165 SUNSET BLVD W	LUST, HIST CORTESE	Lower	1337, 0.253, ENE
46	NORTHROP GRUMMAN COR	800 NO DOUGLAS	ENVIROSTOR	Higher	1755, 0.332, NNW
L47	G.C. HEWITT COMPANY	174 GLENDALE BLVD	ENVIROSTOR, HIST UST	Lower	1790, 0.339, West
L48	G C HEWITT CO	174 GLENDALE BLVD	SEMS-ARCHIVE, RCRA-SQG	Lower	1790, 0.339, West
49	MWD HEADQUARTERS GAR	610 FIGUEROA TERRACE	LUST, HIST CORTESE	Lower	1799, 0.341, East
50	LA1 AND LA2 WELL SIT	806 NORTH BEAUDRY	SLIC	Lower	1846, 0.350, ENE
51	VISTA HERMOSA	1101 W. 1ST STREET	ENVIROSTOR, SCH	Lower	1885, 0.357, South
52	TEMPLE	1500-1513 W TEMPLE S	US BROWNFIELDS	Lower	1926, 0.365, WNW
53	CENTRAL STREET MDY	1274 WEST SECOND STR	SWF/LF	Lower	1994, 0.378, SW
M54	BELMONT LEARNING CEN	1ST STREET/BEAUDRY	ENVIROSTOR, SCH	Lower	2006, 0.380, South
55	SERVICE STATION (FOR	1304 2ND ST	LUST	Lower	2147, 0.407, SW
M56	FIRE STATION #3	108 FREMONT AVE N	LUST	Lower	2224, 0.421, South
N57	SERVICE SATTION 0253	900 SUNSET BOULEVARD	LUST, HIST UST, HIST CORTESE	Lower	2268, 0.430, ESE
N58	UNOCAL #0253	900 SUNSET BLVD	LUST	Lower	2268, 0.430, ESE
O59	PROPOSED ROCKWOOD CH	1552 ROCKWOOD STREET	ENVIROSTOR, VCP, DEED	Lower	2342, 0.444, West
P60	CIVIC CENTER DIST. H	1141 002ND ST W	LUST	Lower	2366, 0.448, SSW
P61	CIVIC CENTER DIST. H	1141 002ND	HIST CORTESE	Lower	2370, 0.449, SSW
O62	ROCKWOOD PARK	1544-1556 COLTON	US BROWNFIELDS, FINDS	Lower	2381, 0.451, West
P63	TOSCO - 76 STATION #	1031 002ND ST W	LUST, HIST CORTESE	Lower	2393, 0.453, SSW
P64	76 STATION #0122 (FO	1031 2ND ST. W.	LUST	Lower	2425, 0.459, South
Q65	A QUALITY AUTO SERVI	1301 W SUNSET BLVD	SWEEPS UST, CA FID UST, EMI, HIST CORTESE	Higher	2465, 0.467, NNE
Q66	DONALD COZEN	1301 SUNSET BLVD W	LUST	Higher	2465, 0.467, NNE
R67	UNOCAL #6339	1604 TEMPLE	HIST CORTESE	Lower	2507, 0.475, WNW
R68	UNOCAL #6339	1604 TEMPLE ST W	LUST	Lower	2507, 0.475, WNW
P69	CHEVRON #3-8619	1100 002ND ST W	LUST, HIST CORTESE	Lower	2541, 0.481, SSW
S70	SOUTH REGION ELEMENT	EAST 89TH STREET/EAS	ENVIROSTOR, SCH	Lower	3201, 0.606, SSW
S71	CENTRAL REGION HIGH	EAST 52ND STREET/SAN	ENVIROSTOR, SCH	Lower	3201, 0.606, SSW
72	CENTRAL LOS ANGELES	350 S. BIXEL STREET	ENVIROSTOR, SCH	Lower	3326, 0.630, SW
73	IGLESIA NI CRISTO	141 NORTH UNION AVEN	ENVIROSTOR, VCP	Lower	3478, 0.659, West
T74	US MARINE CORPS RESE	1700 STADIUM WAY	LUST, HIST Cal-Sites, SWEEPS UST, CA FID UST	Lower	3492, 0.661, ENE
T75	LOS ANGELES NAVAL &	1700 STADIUM WAY	RESPONSE, ENVIROSTOR, SLIC, DEED, MCS, HAZNET,...	Lower	3492, 0.661, ENE
76	GRATTS ELEMENTARY SC	309 LUCAS AVENUE	ENVIROSTOR, SLIC, SCH, ENF, HIST CORTESE	Lower	3498, 0.663, SW
77	NAVAL RESERVE ARMORY		ENVIROSTOR	Lower	3810, 0.722, ENE
78	HOLLOWAY DRY CLEANER	1159 ECHO PARK BLVD	Notify 65	Lower	4327, 0.820, NNW

MAPPED SITES SUMMARY

Target Property Address:
418 FIRMIN ST
LOS ANGELES, CA 90026

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
U79	SANTA MONICA NEW PRI	SANTA MONICA BLVD/GO	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U80	BELMONT NEW PRIMARY	LAKE STREET/ROSELAKE	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U81	HOOPER NEW PRIMARY C	EAST 52ND STREET/HOO	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U82	FREMONT NEW PRIMARY	MENLO AVENUE/BARING	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U83	MARSHALL NEW PRIMARY	LEXINGTON AVE/WESTMO	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U84	EAST VALLEY AREA NEW	VINELAND AVENUE/CUMP	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U85	CENTRAL LOS ANGELES	BROADWAY/GRAND AVE/3	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U86	JEFFERSON NEW ELEMEN	WADWORTH AVENUE/52ND	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U87	WEEMES ELEMENTARY SC	1201-1203, 1205, 120	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U88	VINE NEW PRIMARY CEN	LA MIRADA AVE/CAHUEN	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U89	WILSON NEW ELEMENTAR	HUNTINGTON DR/LIFUR	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U90	EAST VALLEY MIDDLE S	LAUREL CANYON BOULEV	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U91	BELMONT NEW PRIMARY	218/220/222/224 N. J	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U92	CAHUENGA NEW ELEMENT	WESTERN AVENUE/OXFOR	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U93	PIO PICO PLAYGROUND	1313, 1325, 1327, 13	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U94	EAST LOS ANGELES HIG	BELVEDERE PARK/CESAR	ENVIROSTOR, SCH	Lower	4470, 0.847, South
U95	DOWNTOWN BUSINESS MA	1061 & 1081 WEST TEM	ENVIROSTOR, SCH	Lower	4470, 0.847, South
96	REGENCY CLEANERS	1411 ECHO PARK AVE	RCRA-SQG, ENVIROSTOR, SLIC, VCP, DEED, FINDS,...	Lower	4808, 0.911, North
97	BLOSSOM PLAZA MIXED	900 NORTH BROADWAY S	ENVIROSTOR, VCP, ENF, NPDES	Lower	4834, 0.916, East
98	CORNFIELD SITE	1245 N. SPRING STREE	ENVIROSTOR, VCP	Lower	5179, 0.981, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

FEMA UST ---- Underground Storage Tank Listing
INDIAN UST ---- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---- Waste Management Unit Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
AOCONCERN ---- San Gabriel Valley Areas of Concern
CDL ---- Clandestine Drug Labs
Toxic Pits ---- Toxic Pits Cleanup Act Sites
US CDL ---- National Clandestine Laboratory Register

Local Land Records

LIENS ---- Environmental Liens Listing
LIENS 2 ---- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CHMIRS ---- California Hazardous Material Incident Report System
LDS ---- Land Disposal Sites Listing
MCS ---- Military Cleanup Sites Listing
SPILLS 90 ---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ---- RCRA - Non Generators / No Longer Regulated
FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST

EXECUTIVE SUMMARY

2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
LOS ANGELES CO. HMS	HMS: Street Number List
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 02/07/2017 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
G C HEWITT CO	***174 GLENDALE BLVD***	***W 1/4 - 1/2 (0.339 mi.)***	***L48***	***77***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or

dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/12/2016 has revealed that there are 3 RCRA-LQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROYBAL LEARNING CENT	1200 W COLTON ST	SSW 1/8 - 1/4 (0.188 mi.)	G24	29
EARLY CHILDHOOD EDUC	1360 W TEMPLE ST	NW 1/8 - 1/4 (0.203 mi.)	F26	32
CVS PHARMACY #9674	***1050 WEST SUNSET BOU***	***E 1/8 - 1/4 (0.243 mi.)***	***43***	***65***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/12/2016 has revealed that there are 7 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOS ANGELES USD PLAS	***1321 CORTEZ ST***	***NW 1/8 - 1/4 (0.152 mi.)***	***F21***	***25***
LA FRIENDS CHILD CAR	***707 KENSINGTON RD***	***NNE 1/8 - 1/4 (0.243 mi.)***	***42***	***63***

Lower Elevation	Address	Direction / Distance	Map ID	Page
EUNICE KLEIN	***327 N BIXEL***	***WSW 0 - 1/8 (0.076 mi.)***	***B5***	***9***
VIERTELS AUTOMOTIVE	***1155 W TEMPLE ST***	***ESE 0 - 1/8 (0.088 mi.)***	***C7***	***10***
BRUCE W MANLEY	1246 COURT ST	SW 1/8 - 1/4 (0.136 mi.)	E14	15
LA FIRE STATION 6	***534 E EDGEWARE RD***	***NNW 1/8 - 1/4 (0.147 mi.)***	***D17***	***20***
METROPOLITAN WATER D	***1111 SUNSET BLVD***	***ENE 1/8 - 1/4 (0.238 mi.)***	***K37***	***55***

State- and tribal - equivalent NPL

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, has revealed that there is 1 RESPONSE site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOS ANGELES NAVAL &	***1700 STADIUM WAY***	***ENE 1/2 - 1 (0.661 mi.)***	***T75***	***170***

Database: RESPONSE, Date of Government Version: 10/31/2016
Status: Active
Facility Id: 19970021

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/31/2016 has revealed that there are 34 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LA UNI SCH DIST, PLA Facility Id: 60000055 Status: Inactive - Needs Evaluation	***1321 CORTEZ ST***	***NW 1/8 - 1/4 (0.152 mi.)***	***F20***	***22***
NORTHROP GRUMMAN COR Facility Id: 80001311 Status: * Inactive	800 NO DOUGLAS	NNW 1/4 - 1/2 (0.332 mi.)	46	74

Lower Elevation	Address	Direction / Distance	Map ID	Page
BANK OF AMERICA DATA Facility Id: 71003397 Status: Refer: Other Agency	***1000 W TEMPLE ST***	***SE 1/8 - 1/4 (0.220 mi.)***	***H31***	***43***
G.C. HEWITT COMPANY Facility Id: 19510058 Status: Refer: Other Agency	***174 GLENDALE BLVD***	***W 1/4 - 1/2 (0.339 mi.)***	***L47***	***75***
VISTA HERMOSA Facility Id: 60000001 Status: Certified / Operation & Maintenance	***1101 W. 1ST STREET***	***S 1/4 - 1/2 (0.357 mi.)***	***51***	***82***
BELMONT LEARNING CEN Facility Id: 19820013 Status: No Action Required	***1ST STREET/BEAUDRY***	***S 1/4 - 1/2 (0.380 mi.)***	***M54***	***98***
PROPOSED ROCKWOOD CH Facility Id: 60002072 Status: Active	***1552 ROCKWOOD STREET***	***W 1/4 - 1/2 (0.444 mi.)***	***O59***	***116***
SOUTH REGION ELEMENT Facility Id: 60000393 Status: Certified	***EAST 89TH STREET/EAS***	***SSW 1/2 - 1 (0.606 mi.)***	***S70***	***152***
CENTRAL REGION HIGH Facility Id: 60000392 Status: Certified	***EAST 52ND STREET/SAN***	***SSW 1/2 - 1 (0.606 mi.)***	***S71***	***156***
CENTRAL LOS ANGELES Facility Id: 19390061 Status: No Action Required	***350 S. BIXEL STREET***	***SW 1/2 - 1 (0.630 mi.)***	***72***	***161***
IGLESIA NI CRISTO	***141 NORTH UNION AVEN***	***W 1/2 - 1 (0.659 mi.)***	***73***	***163***

Facility Id: 60001080 Status: No Further Action				
LOS ANGELES NAVAL & Facility Id: 19970021 Status: Active	***1700 STADIUM WAY***	***ENE 1/2 - 1 (0.661 mi.)***	***T75***	***170***
GRATTS ELEMENTARY SC Facility Id: 19820074 Status: Certified / Operation & Maintenance	***309 LUCAS AVENUE***	***SW 1/2 - 1 (0.663 mi.)***	***76***	***177***
NAVAL RESERVE ARMORY Facility Id: 80000854 Status: Inactive - Needs Evaluation		ENE 1/2 - 1 (0.722 mi.)	77	198
SANTA MONICA NEW PRI Facility Id: 19880035 Status: No Further Action	***SANTA MONICA BLVD/GO***	***S 1/2 - 1 (0.847 mi.)***	***U79***	***199***
BELMONT NEW PRIMARY Facility Id: 19880022 Status: No Further Action	***LAKE STREET/ROSELAKE***	***S 1/2 - 1 (0.847 mi.)***	***U80***	***202***
HOOPER NEW PRIMARY C Facility Id: 19880043 Status: No Action Required	***EAST 52ND STREET/HOO***	***S 1/2 - 1 (0.847 mi.)***	***U81***	***205***
FREMONT NEW PRIMARY Facility Id: 19880023 Status: No Further Action	***MENLO AVENUE/BARING***	***S 1/2 - 1 (0.847 mi.)***	***U82***	***208***
MARSHALL NEW PRIMARY Facility Id: 19650016 Status: No Further Action	***LEXINGTON AVE/WESTMO***	***S 1/2 - 1 (0.847 mi.)***	***U83***	***212***
EAST VALLEY AREA NEW Facility Id: 19000011 Status: Certified	***VINELAND AVENUE/CUMP***	***S 1/2 - 1 (0.847 mi.)***	***U84***	***215***
CENTRAL LOS ANGELES Facility Id: 19390058 Status: Certified	***BROADWAY/GRAND AVE/3***	***S 1/2 - 1 (0.847 mi.)***	***U85***	***220***
JEFFERSON NEW ELEMEN Facility Id: 19880016 Status: Certified	***WADWORTH AVENUE/52ND***	***S 1/2 - 1 (0.847 mi.)***	***U86***	***227***
WEEMES ELEMENTARY SC Facility Id: 19880015 Status: Certified	***1201-1203, 1205, 120***	***S 1/2 - 1 (0.847 mi.)***	***U87***	***232***
VINE NEW PRIMARY CEN Facility Id: 19650022 Status: Inactive - Action Required	***LA MIRADA AVE/CAHUEN***	***S 1/2 - 1 (0.847 mi.)***	***U88***	***236***
WILSON NEW ELEMENTAR Facility Id: 19880033 Status: No Further Action	***HUNTINGTON DR/LIFUR***	***S 1/2 - 1 (0.847 mi.)***	***U89***	***239***
EAST VALLEY MIDDLE S Facility Id: 19750089 Status: Certified	***LAUREL CANYON BOULEV***	***S 1/2 - 1 (0.847 mi.)***	***U90***	***242***
BELMONT NEW PRIMARY Facility Id: 19390060	***218/220/222/224 N. J***	***S 1/2 - 1 (0.847 mi.)***	***U91***	***247***

Status: No Action Required

CAHUENGA NEW ELEMENT	***WESTERN AVENUE/OXFOR***	***S 1/2 - 1 (0.847 mi.)***	***U92***	***249***
Facility Id: 19730195				
Status: No Further Action				
PIO PICO PLAYGROUND	***1313, 1325, 1327, 13***	***S 1/2 - 1 (0.847 mi.)***	***U93***	***252***
Facility Id: 19880036				
Status: No Action Required				
EAST LOS ANGELES HIG	***BELVEDERE PARK/CESAR***	***S 1/2 - 1 (0.847 mi.)***	***U94***	***256***
Facility Id: 19820069				
Status: Inactive - Needs Evaluation				
DOWNTOWN BUSINESS MA	***1061 & 1081 WEST TEM***	***S 1/2 - 1 (0.847 mi.)***	***U95***	***258***
Facility Id: 19000017				
Status: No Action Required				
REGENCY CLEANERS	***1411 ECHO PARK AVE***	***N 1/2 - 1 (0.911 mi.)***	***96***	***261***
Facility Id: 60001767				
Status: Certified O&M - Land Use Restrictions Only				
BLOSSOM PLAZA MIXED	***900 NORTH BROADWAY S***	***E 1/2 - 1 (0.916 mi.)***	***97***	***268***
Facility Id: 60001902				
Status: Certified				
CORNFIELD SITE	***1245 N. SPRING STREE***	***E 1/2 - 1 (0.981 mi.)***	***98***	***280***
Facility Id: 19400013				
Status: Active				

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CENTRAL STREET MDY	1274 WEST SECOND STR	SW 1/4 - 1/2 (0.378 mi.)	53	97
Database: SWF/LF (SWIS), Date of Government Version: 02/13/2017				
Facility ID: 19-AA-0805				
Operational Status: Active				
Regulation Status: Notification				

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 14 LUST sites within

approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DONALD COZEN	1301 SUNSET BLVD W	NNE 1/4 - 1/2 (0.467 mi.)	Q66	144
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: 900260189 Status: Case Closed Global Id: T0603700721 Global ID: T0603700721				

Lower Elevation	Address	Direction / Distance	Map ID	Page
BANK OF AMERICA DATA	1000 TEMPLE ST W	SE 1/8 - 1/4 (0.220 mi.)	H30	38
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: 900120116 Status: Remedial action (cleanup) Underway Global Id: T0603700510 Global ID: T0603700510				
MARLAND COMPANY	1100-1154 BELLEVUE A	E 1/8 - 1/4 (0.232 mi.)	I35	50
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: 900120434 Status: Case Closed Global Id: T0603700538 Global ID: T0603700538				
KATHLEEN ROSS PROPER	***1165 SUNSET BLVD W***	***ENE 1/4 - 1/2 (0.253 mi.)***	***45***	***72***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: 900120289 Status: Case Closed Global Id: T0603700524 Global ID: T0603700524				
MWD HEADQUARTERS GAR	***610 FIGUEROA TERRACE***	***E 1/4 - 1/2 (0.341 mi.)***	***49***	***79***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: 900120207 Status: Case Closed Global Id: T0603700516 Global ID: T0603700516				
SERVICE STATION (FOR	1304 2ND ST	SW 1/4 - 1/2 (0.407 mi.)	55	102
Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T0603780279				
FIRE STATION #3	108 FREMONT AVE N	S 1/4 - 1/2 (0.421 mi.)	M56	105
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017				

Status: Open - Remediation
Facility Id: 900120361
Status: Leak being confirmed
Global Id: T0603700532
Global ID: T0603700532

SERVICE SATTION 0253 ***900 SUNSET BOULEVARD*** ***ESE 1/4 - 1/2 (0.430 mi.)*** ***N57*** ***113***
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Global Id: T0603700502

UNOCAL #0253 900 SUNSET BLVD ESE 1/4 - 1/2 (0.430 mi.) N58 115
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 900120034
Status: Case Closed
Global ID: T0603700502

CIVIC CENTER DIST. H 1141 002ND ST W SSW 1/4 - 1/2 (0.448 mi.) P60 122
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 900260034
Status: Case Closed
Global Id: T0603700708
Global ID: T0603700708

TOSCO - 76 STATION # ***1031 002ND ST W*** ***SSW 1/4 - 1/2 (0.453 mi.)*** ***P63*** ***135***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 900120043
Status: Case Closed
Global Id: T0603700503
Global ID: T0603700503

76 STATION #0122 (FO 1031 2ND ST. W. S 1/4 - 1/2 (0.459 mi.) P64 137
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Global Id: T0603755746

UNOCAL #6339 1604 TEMPLE ST W WNW 1/4 - 1/2 (0.475 mi.) R68 147
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 900260043
Status: Case Closed
Global Id: T0603700709
Global ID: T0603700709

CHEVRON #3-8619 ***1100 002ND ST W*** ***SSW 1/4 - 1/2 (0.481 mi.)*** ***P69*** ***149***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 900120025
Status: Case Closed
Global Id: T0603700501
Global ID: T0603700501

EXECUTIVE SUMMARY

SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the SLIC list, as provided by EDR, has revealed that there are 3 SLIC sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARLAND CO.	538 BEAUDRY	E 1/8 - 1/4 (0.231 mi.)	I33	50
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: No further action required				
MARLAND CO	538 N. BEAUDRY AVE	E 1/8 - 1/4 (0.231 mi.)	I34	50
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: SL184291412				
LA1 AND LA2 WELL SIT	806 NORTH BEAUDRY	ENE 1/4 - 1/2 (0.350 mi.)	50	81
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Site Assessment Global Id: T10000008461				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WATER DISTRICT OF SO	1111 W SUNSET BLVD	ENE 1/8 - 1/4 (0.238 mi.)	K39	58
Database: UST, Date of Government Version: 03/12/2017 Facility Id: 24075				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 07/06/2016 has revealed that there are 3 AST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAUSD - EMERGENCY OP	1212 COLTON ST	SSW 1/8 - 1/4 (0.188 mi.)	G25	31
BANK OF AMERICA NT&S	1000 W TEMPLE ST	SE 1/8 - 1/4 (0.220 mi.)	H28	35
Not reported	1000 W TEMPLE ST., #	SE 1/8 - 1/4 (0.220 mi.)	H32	49

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 10/31/2016 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PROPOSED ROCKWOOD CH	***1552 ROCKWOOD STREET***	***W 1/4 - 1/2 (0.444 mi.)***	***O59***	***116***
Status: Active				
Facility Id: 60002072				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 03/02/2017 has revealed that there are 7 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COURT ST	1272-1276 W. COURT S	WSW 1/8 - 1/4 (0.169 mi.)	23	27

Lower Elevation	Address	Direction / Distance	Map ID	Page
1260	1260 W. COURT ST	WSW 1/8 - 1/4 (0.143 mi.)	E15	16
1346 W. COURT ST	1346 W. COURT ST	W 1/8 - 1/4 (0.235 mi.)	J36	52
1352 COURT ST	1352 W. COURT ST	W 1/8 - 1/4 (0.240 mi.)	J40	58
1350 COURT	1350 W. COURT ST	W 1/8 - 1/4 (0.241 mi.)	J41	61
TEMPLE	1500-1513 W TEMPLE S	WNW 1/4 - 1/2 (0.365 mi.)	52	93
ROCKWOOD PARK	***1544-1556 COLTON***	***W 1/4 - 1/2 (0.451 mi.)***	***O62***	***125***

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 03/13/2017 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
VICTOR RECYCLING CEN	1127 W TEMPLE ST	ESE 0 - 1/8 (0.106 mi.)	C11	14
Cert Id: RC222591.001				

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
US MARINE CORPS RESE	***1700 STADIUM WAY***	***ENE 1/2 - 1 (0.661 mi.)***	***T74***	***166***

SCH: This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category. depending on the level of threat to public health and safety or the. environment they pose.

A review of the SCH list, as provided by EDR, and dated 10/31/2016 has revealed that there is 1 SCH site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LA UNI SCH DIST, PLA Facility Id: 60000055 Status: Inactive - Needs Evaluation	***1321 CORTEZ ST***	***NW 1/8 - 1/4 (0.152 mi.)***	***F20***	***22***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 5 SWEEPS UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOS ANGELES FIRE STA Comp Number: 2634	***534 W EDGEWARE RD***	***NNW 1/8 - 1/4 (0.147 mi.)***	***D16***	***19***
VALLEY KITCHEN & BAT Status: A Comp Number: 8204	13717 VICTORY BLVD	ENE 1/8 - 1/4 (0.156 mi.)	22	26
BANK OF AMERICA DATA Status: A Tank Status: A Comp Number: 46	***1000 W TEMPLE ST***	***SE 1/8 - 1/4 (0.220 mi.)***	***H31***	***43***
WATER DISTRICT OF SO Status: A Comp Number: 7278	***1111 W SUNSET BLVD***	***ENE 1/8 - 1/4 (0.238 mi.)***	***K38***	***57***
BRUCE MANLEY	***152 N TOLUCA ST***	***WSW 1/8 - 1/4 (0.249 mi.)***	***44***	***71***

Comp Number: 7380

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 4 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FIRE STATION #6 Facility Id: 00000047465	534 E EDGEWARE RD	NNW 1/8 - 1/4 (0.147 mi.)	D18	21
FIRE STATION 6	536 E EDGEWARE RD	NNW 1/8 - 1/4 (0.148 mi.)	D19	22
BANK OF AMERICAN DAT Facility Id: 00000000519	***1000 TEMPLE***	***SE 1/8 - 1/4 (0.220 mi.)***	***H27***	***33***
BANK OF AMERICA -DAT	***1000 W TEMPLE ST***	***SE 1/8 - 1/4 (0.220 mi.)***	***H29***	***35***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 4 CA FID UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOS ANGELES FIRE STA Facility Id: 19024434 Status: A	***534 W EDGEWARE RD***	***NNW 1/8 - 1/4 (0.147 mi.)***	***D16***	***19***
BANK OF AMERICA DATA Facility Id: 19000855 Status: A	***1000 W TEMPLE ST***	***SE 1/8 - 1/4 (0.220 mi.)***	***H31***	***43***
WATER DISTRICT OF SO Facility Id: 19029653 Status: A	***1111 W SUNSET BLVD***	***ENE 1/8 - 1/4 (0.238 mi.)***	***K38***	***57***
BRUCE MANLEY Facility Id: 19024723 Status: A	***152 N TOLUCA ST***	***WSW 1/8 - 1/4 (0.249 mi.)***	***44***	***71***

Local Land Records

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 12/06/2016 has revealed that there is 1 DEED site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PROPOSED ROCKWOOD CH Status: ACTIVE	***1552 ROCKWOOD STREET***	***W 1/4 - 1/2 (0.444 mi.)***	***O59***	***116***

Envirostor ID: 60002072

Other Ascertainable Records

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 10 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KRAMER TRUST PROPERT Reg Id: 083000896T	230 ANGELINA	W 0 - 1/8 (0.116 mi.)	B13	15
A QUALITY AUTO SERVI Reg Id: 900260189	***1301 W SUNSET BLVD***	***NNE 1/4 - 1/2 (0.467 mi.)***	***Q65***	***143***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BANK OF AMERICAN DAT Reg Id: 900120116	***1000 TEMPLE***	***SE 1/8 - 1/4 (0.220 mi.)***	***H27***	***33***
KATHLEEN ROSS PROPER Reg Id: 900120289	***1165 SUNSET BLVD W***	***ENE 1/4 - 1/2 (0.253 mi.)***	***45***	***72***
MWD HEADQUARTERS GAR Reg Id: 900120207	***610 FIGUEROA TERRACE***	***E 1/4 - 1/2 (0.341 mi.)***	***49***	***79***
SERVICE SATTION 0253 Reg Id: 900120034	***900 SUNSET BOULEVARD***	***ESE 1/4 - 1/2 (0.430 mi.)***	***N57***	***113***
CIVIC CENTER DIST. H Reg Id: 900260034	1141 002ND	SSW 1/4 - 1/2 (0.449 mi.)	P61	124
TOSCO - 76 STATION # Reg Id: 900120043	***1031 002ND ST W***	***SSW 1/4 - 1/2 (0.453 mi.)***	***P63***	***135***
UNOCAL #6339 Reg Id: 900260043	1604 TEMPLE	WNW 1/4 - 1/2 (0.475 mi.)	R67	147
CHEVRON #3-8619 Reg Id: 900120025	***1100 002ND ST W***	***SSW 1/4 - 1/2 (0.481 mi.)***	***P69***	***149***

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 12/16/2016 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HOLLOWAY DRY CLEANER	1159 ECHO PARK BLVD	NNW 1/2 - 1 (0.820 mi.)	78	199

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 5 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GONZALES THEO	1200 TEMPLE AL	E 0 - 1/8 (0.023 mi.)	1	8
DOWNTOWN AUTO SERVIC	1243 W TEMPLE ST	N 0 - 1/8 (0.062 mi.)	A4	8
HANSON LAWRENCE	1139 TEMPLE AL	ESE 0 - 1/8 (0.086 mi.)	C6	10
WRIGHT J H	1155 TEMPLE AL	ESE 0 - 1/8 (0.088 mi.)	C8	13
SCHLOTT DAVID	1130 TEMPLE AL	SE 0 - 1/8 (0.098 mi.)	C10	14

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 4 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EDGEWARE CLEANERS	1276 TEMPLE ST	NNW 0 - 1/8 (0.107 mi.)	D12	15

Lower Elevation	Address	Direction / Distance	Map ID	Page
PALAIS ISRAEL	1245 TEMPLE AL	N 0 - 1/8 (0.052 mi.)	A2	8
WASSERMAN ISADOR	1249 TEMPLE AL	N 0 - 1/8 (0.057 mi.)	A3	8
JAFFE JOS	1135 TEMPLE AL	ESE 0 - 1/8 (0.097 mi.)	C9	14

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
GRATTS NEW PRIMARY CENTER	ENVIROSTOR, SCH
ALTERNATE CENTRAL LOS ANGELES HS N	ENVIROSTOR, SCH
CENTRAL LOS ANGELES MIDDLE SCHOOL	ENVIROSTOR, SCH

OVERVIEW MAP - 4943971.2S



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	9836002375	CLIENT:	EFI Global Inc.
ADDRESS:	418 Firmin St Los Angeles CA 90026	CONTACT:	James Johnston
LAT/LONG:	34.064796 / 118.2536	INQUIRY #:	4943971.2s
		DATE:	May 22, 2017 11:39 am

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DETAIL MAP - 4943971.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Pipelines

100-year flood zone

500-year flood zone

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 9836002375	CLIENT: EFI Global Inc.
ADDRESS: 418 Firmin St Los Angeles CA 90026	CONTACT: James Johnston
LAT/LONG: 34.064796 / 118.2536	INQUIRY #: 4943971.2s DATE: May 22, 2017 11:40 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	3	NR	NR	NR	3
RCRA-SQG	0.250		2	5	NR	NR	NR	7
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	1	NR	1
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	2	5	27	NR	34
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking storage tank lists								
LUST	0.500		0	2	12	NR	NR	14

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	2	1	NR	NR	3
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	3	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	5	2	NR	NR	7
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		1	0	0	NR	NR	1
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
HIST Cal-Sites	1.000		0	0	0	1	NR	1
SCH	0.250		0	1	NR	NR	NR	1
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	5	NR	NR	NR	5
HIST UST	0.250		0	4	NR	NR	NR	4
CA FID UST	0.250		0	4	NR	NR	NR	4
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	1	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.500		0	0	0	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		1	1	8	NR	NR	10
LOS ANGELES CO. HMS	TP		NR	NR	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	1	NR	1
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		5	NR	NR	NR	NR	5
EDR Hist Cleaner	0.125		4	NR	NR	NR	NR	4
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	13	38	32	30	0	113

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
East
< 1/8
0.023 mi.
121 ft.

GONZALES THEO — **EDR Hist Auto** — **1009082662**
1200 TEMPLE AL — **N/A**
LOS ANGELES, CA

Relative: Lower

Actual: 398 ft.

EDR Hist Auto

Year:	Name:	Type:
1937	FORD J A	GASOLINE AND OIL SERVICE STATIONS
1942	GONZALES THEO	GASOLINE AND OIL SERVICE STATIONS

A2
North
< 1/8
0.052 mi.
276 ft.

PALAIS ISRAEL — **EDR Hist Cleaner** — **1009191835**
1245 TEMPLE AL — **N/A**
LOS ANGELES, CA

Site 1 of 3 in cluster A

Relative: Lower

Actual: 415 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1933	PALAIS ISRAEL	CLOTHES PRESSERS AND CLEANERS

A3
North
< 1/8
0.057 mi.
303 ft.

WASSERMAN ISADOR — **EDR Hist Cleaner** — **1009188887**
1249 TEMPLE AL — **N/A**
LOS ANGELES, CA

Site 2 of 3 in cluster A

Relative: Lower

Actual: 416 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1924	WASSERMAN ISADOR	CLOTHES CLEANERS PRESSERS AND DYERS

A4
North
< 1/8
0.062 mi.
328 ft.

DOWNTOWN AUTO SERVICES — **EDR Hist Auto** — **1021941993**
1243 W TEMPLE ST — **N/A**
LOS ANGELES, CA 90026

Site 3 of 3 in cluster A

Relative: Lower

Actual: 414 ft.

EDR Hist Auto

Year:	Name:	Type:
1993	DOWNTOWN AUTO SERVICES	General Automotive Repair Shops
1994	DOWNTOWN AUTO SERVICES	General Automotive Repair Shops
1995	DOWNTOWN AUTO SERVICES	General Automotive Repair Shops
1996	DOWNTOWN AUTO SERVICES	General Automotive Repair Shops
1997	DOWNTOWN AUTO SERVICES	General Automotive Repair Shops
1998	DOWNTOWN AUTO SERVICES	General Automotive Repair Shops
1999	DOWNTOWN AUTO SERVICES	General Automotive Repair Shops
2003	YUCATAN AUTO SERVICE	General Automotive Repair Shops
2004	YUCATAN AUTO SERVICE	General Automotive Repair Shops
2005	YUCATAN AUTO SERVICE	General Automotive Repair Shops
2006	YUCATAN AUTO SERVICE	General Automotive Repair Shops
2007	YUCATAN AUTO SERVICE	General Automotive Repair Shops
2008	YUCATAN AUTO SERVICE	General Automotive Repair Shops

B5
WSW
< 1/8
0.076 mi.
402 ft.

EUNICE KLEIN
327 N BIXEL
LOS ANGELES, CA 90022

Site 1 of 2 in cluster B

RCRA-SQG
FINDS
ECHO

1000246847
CAD981973670

Relative:
Lower

Actual:
421 ft.

RCRA-SQG:

Date form received by agency:	05/07/1987
Facility name:	EUNICE KLEIN
Facility address:	327 N BIXEL LOS ANGELES, CA 90022
EPA ID:	CAD981973670
Mailing address:	17232 ELKWOOD AVE VAN NUYS, CA 91406
Contact:	ENVIRONMENTAL MANAGER
Contact address:	327 N BIXEL LOS ANGELES, CA 90022
Contact country:	US
Contact telephone:	(818) 421-1611
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	EUNICE KLEIN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

EUNICE KLEIN (Continued) **1000246847**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002761155

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access
1 additional FINDS: record(s) in the EDR Site Report.

ECHO:
Envid: 1000246847
Registry ID: 110002761155
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002761155

C6 **HANSON LAWRENCE** **EDR Hist Auto** **1009080055**
ESE **1139 TEMPLE AL** **N/A**
< 1/8 **LOS ANGELES, CA**
0.086 mi.
455 ft. **Site 1 of 6 in cluster C**

Relative:
Lower

Actual:
375 ft.

EDR Hist Auto

Year:	Name:	Type:
1933	MOODY JOYCE	GASOLINE AND OIL SERVICE STATIONS
1933	HANSON LAWRENCE	AUTOMOBILE REPAIRING
1942	ACUNA FRANK	GASOLINE AND OIL SERVICE STATIONS

C7 **VIERTELS AUTOMOTIVE SERVICE** **RCRA-SQG** **1000857795**
ESE **1155 W TEMPLE ST** **FINDS** **CAD983672429**
< 1/8 **LOS ANGELES, CA 90012** **ECHO**
0.088 mi. **HAZNET**
465 ft. **Site 2 of 6 in cluster C**

Relative:
Lower

Actual:
374 ft.

RCRA-SQG:
Date form received by agency: 07/22/1993
Facility name: VIERTELS AUTOMOTIVE SERVICE
Facility address: 1155 W TEMPLE ST
LOS ANGELES, CA 90012
EPA ID: CAD983672429

VIERTELS AUTOMOTIVE SERVICE (Continued) **1000857795**

Mailing address: W TEMPLE ST
LOS ANGELES, CA 90012
Contact: ROBERT JONES
Contact address: 1155 W TEMPLE ST
LOS ANGELES, CA 90012
Contact country: US
Contact telephone: (213) 250-0143
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ROBERT JONES
Owner/operator address: 1155 W TEMPLE ST
LOS ANGELES, CA 90012
Owner/operator country: Not reported
Owner/operator telephone: (213) 250-0143
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002902280

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource

VIERTELS AUTOMOTIVE SERVICE (Continued) **1000857795**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access
1 additional FINDS: record(s) in the EDR Site Report.

ECHO:

Envid:	1000857795
Registry ID:	110002902280
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002902280

HAZNET:

envid:	1000857795
Year:	2013
GEPAID:	CAD983672429
Contact:	AL Moreno
Telephone:	2132500143
Mailing Name:	Not reported
Mailing Address:	1155 W TEMPLE ST
Mailing City,St,Zip:	LOS ANGELES, CA 900120000
Gen County:	Los Angeles
TSD EPA ID:	CAT000613893
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0125
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	1000857795
Year:	2012
GEPAID:	CAD983672429
Contact:	ROBERT JONES
Telephone:	2132500143
Mailing Name:	Not reported
Mailing Address:	1155 W TEMPLE ST
Mailing City,St,Zip:	LOS ANGELES, CA 900120000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.005
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

VIERTELS AUTOMOTIVE SERVICE (Continued) **1000857795**

envid:	1000857795
Year:	2010
GEPAID:	CAD983672429
Contact:	ROBERT JONES
Telephone:	2132500143
Mailing Name:	Not reported
Mailing Address:	1155 W TEMPLE ST
Mailing City,St,Zip:	LOS ANGELES, CA 900120000
Gen County:	Not reported
TSD EPA ID:	CAT000613935
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.168
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000857795
Year:	2001
GEPAID:	CAD983672429
Contact:	ROBERT JONES
Telephone:	2132500143
Mailing Name:	Not reported
Mailing Address:	1155 W TEMPLE ST
Mailing City,St,Zip:	LOS ANGELES, CA 900120000
Gen County:	Not reported
TSD EPA ID:	CAT000613935
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Transfer Station
Tons:	0.16
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

C8 **WRIGHT J H** **EDR Hist Auto** **1009079936**
ESE **1155 TEMPLE AL** **N/A**
< 1/8 **LOS ANGELES, CA**
0.088 mi.
465 ft. **Site 3 of 6 in cluster C**

Relative: EDR Hist Auto
Lower

Actual:
374 ft.

Year:	Name:	Type:
1933	TEMPLE STREET GARAGE	AUTOMOBILE REPAIRING
1937	WRIGHT J H	AUTOMOBILE REPAIRING
1942	WRIGHT J H	AUTOMOBILE REPAIRING
1990	VIERTELS AUTOMOTIVE SERVICE	Towing Services

C9 **JAFFE JOS** **EDR Hist Cleaner** **1009189014**
ESE **1135 TEMPLE AL** **N/A**
< 1/8 **LOS ANGELES, CA**
0.097 mi.
510 ft. **Site 4 of 6 in cluster C**

Relative: EDR Hist Cleaner
Lower

Year:	Name:	Type:
1929	JAFFE JOS	CLOTHES PRESSERS CLEANERS AND REPAIRERS

Actual:
370 ft.

C10 **SCHLOTT DAVID** **EDR Hist Auto** **1009081768**
SE **1130 TEMPLE AL** **N/A**
< 1/8 **LOS ANGELES, CA**
0.098 mi.
520 ft. **Site 5 of 6 in cluster C**

Relative: EDR Hist Auto
Lower

Year:	Name:	Type:
1937	SCHLOTT DAVID	GASOLINE AND OIL SERVICE STATIONS

Actual:
369 ft.

C11 **VICTOR RECYCLING CENTER INC** **SWRCY** **S107137271**
ESE **1127 W TEMPLE ST** **N/A**
< 1/8 **LOS ANGELES, CA 90012**
0.106 mi.
562 ft. **Site 6 of 6 in cluster C**

Relative: SWRCY:
Lower

Reg Id:	222591
Cert Id:	RC222591.001
Mailing Address:	1127 W Temple St
Mailing City:	Los Angeles
Mailing State:	CA
Mailing Zip Code:	90012
Website:	Not reported
Email:	Not reported
Phone Number:	(818) 731-5398
Grand Father:	N
Rural:	N
Operation Begin Date:	01/01/2015
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	7:00 am - 5:00 pm
Tuesday Hours Of Operation:	7:00 am - 5:00 pm
Wednesday Hours Of Operation:	7:00 am - 5:00 pm
Thursday Hours Of Operation:	7:00 am - 5:00 pm
Friday Hours Of Operation:	7:00 am - 5:00 pm
Saturday Hours Of Operation:	7:00 am - 5:00 pm
Sunday Hours Of Operation:	7:00 am - 5:00 pm
Organization ID:	217689
Organization Name:	Victor Recycling Center Inc

Actual:
369 ft.

D12 **EDGEWARE CLEANERS** **EDR Hist Cleaner** **1018645419**
NNW **1276 TEMPLE ST** **N/A**
< 1/8 **LOS ANGELES, CA 90026**
0.107 mi.
567 ft. **Site 1 of 5 in cluster D**

Relative: EDR Hist Cleaner
Higher

Year:	Name:	Type:
1980	EDGEWARE CLEANERS	Garment Pressing And Cleaners' Agents
1982	EDGEWARE CLEANERS	Garment Pressing And Cleaners' Agents
1983	EDGEWARE CLEANERS	Garment Pressing And Cleaners' Agents
1985	EDGEWARE CLEANERS	Garment Pressing And Cleaners' Agents
1986	EDGEWARE CLEANERS	Garment Pressing And Cleaners' Agents
1987	EDGEWARE CLEANERS	Garment Pressing And Cleaners' Agents
1988	EDGEWARE CLEANERS	Garment Pressing And Cleaners' Agents
1989	EDGEWARE CLEANERS	Garment Pressing
1990	EDGEWARE CLEANERS	Garment Pressing
1991	EDGEWARE CLEANERS	Garment Pressing
1992	EDGEWARE CLEANERS	Garment Pressing
1993	EDGEWARE CLEANERS	Garment Pressing

Actual:
429 ft.

B13 **KRAMER TRUST PROPERTY** **HIST CORTESE** **S105025581**
West **230 ANGELINA** **N/A**
< 1/8 **PLACENTA, CA 90060**
0.116 mi.
613 ft. **Site 2 of 2 in cluster B**

Relative: HIST CORTESE:
Higher

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083000896T

Actual:
443 ft.

E14 **BRUCE W MANLEY** **RCRA-SQG** **1000168594**
SW **1246 COURT ST** **CAD981973829**
1/8-1/4 **LOS ANGELES, CA 90026**
0.136 mi.
719 ft. **Site 1 of 2 in cluster E**

Relative: RCRA-SQG:
Lower

Date form received by agency:	05/04/1987
Facility name:	BRUCE W MANLEY
Facility address:	1246 COURT ST LOS ANGELES, CA 90026
EPA ID:	CAD981973829
Mailing address:	410 CENTER ST LOS ANGELES, CA 90012
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1246 COURT ST LOS ANGELES, CA 90026
Contact country:	US
Contact telephone:	(213) 628-5674
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of

Actual:
420 ft.

BRUCE W MANLEY (Continued) **1000168594**

hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	BRUCE W MANLEY
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

E15 **1260** **US BROWNFIELDS** **1018272959**
WSW **1260 W. COURT ST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90026**
0.143 mi.
754 ft. **Site 2 of 2 in cluster E**

Relative:
Lower

Actual:
425 ft.

US BROWNFIELDS:

Recipient name:	City of Los Angeles - Department of Public Works
Grant type:	Assessment
Property name:	1260
Property #:	5160-019-013
Parcel size:	.1
Property Description:	This site is a duplex with a home. According to the current owner Simon Bowler he bought the property in 2003 he doesn't know the

1260 (Continued) **1018272959**

previous owner or how to get in contact with he/she. The name of the previous owner is David Linden. The current site is near a suspected oil well. The current owner believes that the site could be on an oil well, will need Phase I to confirm contaminates on site.

Latitude:	34.0634919
Longitude:	-118.256041
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	212621
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	2288
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	Petroleum
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	99T09601
Ownership entity:	Private
Current owner:	Simon Bowler
Did owner change:	N
Cleanup required:	Unknown
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported

1260 (Continued) **1018272959**

Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported

1260 (Continued) **1018272959**

Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Highlights:	Not reported
IC Data Address:	Not reported
Redev Completition Date:	Not reported
# Below Poverty:	4172
% Below Poverty:	3.4%
# Low Income:	8973
% Low Income:	1.6%
Meidan Income:	6405
# Unemployed:	1248
% Unemployed:	11.4%
# Vacant Housing:	413
% Vacant Housing:	34.4%

D16 **LOS ANGELES FIRE STATION #6** **SWEEPS UST** **S101585510**
NNW **534 W EDGEWARE RD** **CA FID UST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90026**
0.147 mi.
777 ft. **Site 2 of 5 in cluster D**

Relative:
Lower

Actual:
420 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	2634
Number:	Not reported
Board Of Equalization:	44-012042
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-002634-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

CA FID UST:

Facility ID:	19024434
Regulated By:	UTNKA
Regulated ID:	00047465
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2134855846
Mail To:	Not reported
Mailing Address:	200 N MAIN STREET-ROOM
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900260000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported

LOS ANGELES FIRE STATION #6 (Continued) **S101585510**

EPA ID: Not reported
Comments: Not reported
Status: Active

D17 **LA FIRE STATION 6** **RCRA-SQG 1000229462**
NNW **534 E EDGEWARE RD** **FINDS CAD981963127**
1/8-1/4 **LOS ANGELES, CA 90026** **ECHO**
0.147 mi.
777 ft. **Site 3 of 5 in cluster D**

Relative:
Lower

Actual:
420 ft.

RCRA-SQG:
Date form received by agency: 03/09/1987
Facility name: LA FIRE STATION 6
Facility address: 534 E EDGEWARE RD
LOS ANGELES, CA 90012
EPA ID: CAD981963127
Mailing address: 200 N MAIN RM EIGHTH HUNDRED C
LOS ANGELES, CA 90012
Contact: ENVIRONMENTAL MANAGER
Contact address: 534 E EDGEWARE RD
LOS ANGELES, CA 90012
Contact country: US
Contact telephone: (213) 485-7527
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CITY OF LA
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

LA FIRE STATION 6 (Continued) **1000229462**

Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002756802

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access
1 additional FINDS: record(s) in the EDR Site Report.

ECHO:

Envid:	1000229462
Registry ID:	110002756802
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002756802

D18 **FIRE STATION #6** **HIST UST** **U001561154**
NNW **534 E EDGEWARE RD** **N/A**
1/8-1/4 **LOS ANGELES, CA 90026**
0.147 mi.
777 ft. **Site 4 of 5 in cluster D**

Relative:
Lower

Actual:
420 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000047465
Facility Type:	Other
Other Type:	FIRE STATION
Contact Name:	Not reported
Telephone:	2134856939
Owner Name:	CITY OF LOS ANGELES
Owner Address:	200 N. MAIN ST.

FIRE STATION #6 (Continued) **U001561154**

Owner City,St,Zip:	LOS ANGELES, CA 90012
Total Tanks:	0001
Tank Num:	001
Container Num:	FS6-1
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

D19 **FIRE STATION 6** **HIST UST** **S118410122**
NNW **536 E EDGEWARE RD** **N/A**
1/8-1/4 **LOS ANGELES, CA 90026**
0.148 mi.
781 ft. **Site 5 of 5 in cluster D**

Relative:
Lower

Actual:
421 ft.

HIST UST:

File Number:	00027131
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027131.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

F20 **LA UNI SCH DIST, PLASENCIA ELE** **ENVIROSTOR** **S100939210**
NW **1321 CORTEZ ST** **SCH** **N/A**
1/8-1/4 **LOS ANGELES, CA 90026** **EMI**
0.152 mi.
801 ft. **Site 1 of 3 in cluster F**

Relative:
Higher

Actual:
440 ft.

ENVIROSTOR:

Facility ID:	60000055
Status:	Inactive - Needs Evaluation
Status Date:	01/07/2000
Site Code:	304008
Site Type:	School Investigation
Site Type Detailed:	School

LA UNI SCH DIST, PLASENCIA ELE (Continued) **S100939210**

Acres: 6
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 51
Senate: 24
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.06556
Longitude: -118.2557
APN: 5160007910
Past Use: * EDUCATIONAL SERVICES
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: PLASENCIA ELEM/PLASENCIA MAGNET SCH
Alias Type: Alternate Name
Alias Name: 5160007910
Alias Type: APN
Alias Name: 304008
Alias Type: Project Code (Site Code)
Alias Name: 60000055
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 60000055
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program

LA UNI SCH DIST, PLASENCIA ELE (Continued) **S100939210**

Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304008
Assembly:	51
Senate:	24
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	01/07/2000
Restricted Use:	NO
Funding:	School District
Latitude:	34.06556
Longitude:	-118.2557
APN:	5160007910
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	PLASENCIA ELEM/PLASENCIA MAGNET SCH
Alias Type:	Alternate Name
Alias Name:	5160007910
Alias Type:	APN
Alias Name:	304008
Alias Type:	Project Code (Site Code)
Alias Name:	60000055
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	72821
Air District Name:	SC
SIC Code:	8211
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0

LA UNI SCH DIST, PLASENCIA ELE (Continued) **S100939210**

NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

F21 **LOS ANGELES USD PLASENCIA ELEM SCHOOL** **RCRA-SQG** **1000102136**
NW **1321 CORTEZ ST** **FINDS** **CAD982022618**
1/8-1/4 **LOS ANGELES, CA 90026** **ECHO**
0.152 mi.
801 ft. **Site 2 of 3 in cluster F**

Relative:
Higher

Actual:
440 ft.

RCRA-SQG:
Date form received by agency: 08/07/1987
Facility name: LOS ANGELES USD PLASENCIA ELEM SCHOOL
Facility address: 1321 CORTEZ ST
LOS ANGELES, CA 90026
EPA ID: CAD982022618
Mailing address: 1425 S SAN PEDRO ST ROOM 215
LOS ANGELES, CA 90015
Contact: ENVIRONMENTAL MANAGER
Contact address: 1321 CORTEZ ST
LOS ANGELES, CA 90026
Contact country: US
Contact telephone: (213) 742-7371
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

LOS ANGELES USD PLASENCIA ELEM SCHOOL (Continued) **1000102136**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002779217

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access
1 additional FINDS: record(s) in the EDR Site Report.

ECHO:

Envid:	1000102136
Registry ID:	110002779217
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002779217

22
ENE
1/8-1/4
0.156 mi.
826 ft.

VALLEY KITCHEN & BATH **SWEEPS UST** **S106934008**
13717 VICTORY BLVD **N/A**
LOS ANGELES, CA 90000

Relative:
Lower

Actual:
394 ft.

SWEEPS UST:

Status:	Active
Comp Number:	8204
Number:	2
Board Of Equalization:	Not reported
Referral Date:	08-31-93
Action Date:	04-25-94
Created Date:	08-20-93
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported

VALLEY KITCHEN & BATH (Continued) **S106934008**

Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

---

23 **COURT ST** **US BROWNFIELDS** **1018273103**
WSW **1272-1276 W. COURT ST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90026**
0.169 mi.
894 ft.

Relative:
Higher

Actual:
431 ft.

US BROWNFIELDS:

Recipient name:	City of Los Angeles - Department of Public Works
Grant type:	Assessment
Property name:	COURT ST
Property #:	5160019032
Parcel size:	1
Property Description:	This site is a duplex with three homes. According to the current owner William O. Lenihan Jr, he doesn't know the previous owner or how to get in contact with he/she. The name of the previous owner is Hal England and Pete Atencio. The current owner believes that the site is on an oil well, will need Phase I to confirm contaminates on site.
Latitude:	34.063746
Longitude:	-118.256626
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	209261
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	5483
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	Petroleum
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	99T09601
Ownership entity:	Private
Current owner:	William O. Lenihan Jr
Did owner change:	N
Cleanup required:	No
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported

COURT ST (Continued) **1018273103**

IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Y
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	1
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported

COURT ST (Continued) **1018273103**

mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Highlights:	Not reported
IC Data Address:	Not reported
Redev Completition Date:	Not reported
# Below Poverty:	4144
% Below Poverty:	3.4%
# Low Income:	8988
% Low Income:	1.6%
Meidan Income:	6359
# Unemployed:	1290
% Unemployed:	10.9%
# Vacant Housing:	352
% Vacant Housing:	39.8%

G24 **ROYBAL LEARNING CENTER** **RCRA-LQG** **1006805528**
SSW **1200 W COLTON ST** **CAR000128876**
1/8-1/4 **LOS ANGELES, CA 90026**
0.188 mi.
990 ft. **Site 1 of 2 in cluster G**

Relative:
Lower

Actual:
404 ft.

RCRA-LQG:

Date form received by agency:	11/23/2009
Facility name:	ROYBAL LEARNING CENTER
Facility address:	1200 W COLTON ST LOS ANGELES, CA 90026
EPA ID:	CAR000128876
Mailing address:	333 S BEAUDRY AVE LAUSD OEHS 2OTH FLOOR LOS ANGELES, CA 90017
Contact:	SOE AUNG
Contact address:	333 S BEAUDRY AVE LAUSD OEHS 2OTH FLOOR LOS ANGELES, CA 90017
Contact country:	US

ROYBAL LEARNING CENTER (Continued) **1006805528**

Contact telephone: 213-241-3904
Contact email: SOE.AUNG@LAUSD.NET
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: LAUSD
Owner/operator address: 333 S BEAUDRY AVE
LOS ANGELES, CA 90017
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: 03/04/2003
Owner/Op end date: Not reported

Owner/operator name: ROYBAL LEARNING CENTER
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: District
Owner/Operator Type: Operator
Owner/Op start date: 03/04/2003
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008

ROYBAL LEARNING CENTER (Continued) **1006805528**

. Waste name: LEAD

Historical Generators:
Date form received by agency: 03/15/2006
Site name: CENTRAL L A NEW HIGH SCHOOL NO 11
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 03/31/2004
Site name: LAUSD--BELMONT LEARNING CENTER
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

Date form received by agency: 09/25/2002
Site name: BELMONT LEARNING CENTER
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

G25 **LAUSD - EMERGENCY OPERATIONS CENTER** **AST** **A100421702**
SSW **1212 COLTON ST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90026**
0.188 mi.
991 ft. **Site 2 of 2 in cluster G**

Relative:
Lower

Actual:
404 ft.

AST:
Certified Unified Program Agencies: Not reported
Owner: LOS ANGELES UNIFIED SCHOOL DISTRICT
Total Gallons: Not reported
CERSID: 10443109
Facility ID: Not reported
Business Name: Los Angeles Unified School District
Phone: (213) 241-3199
Fax: (213) 241-6816
Mailing Address: 333 S BEAUDRY AVE 21st FL
Mailing Address City: LOS ANGELES
Mailing Address State: CA
Mailing Address Zip Code: 90017
Operator Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Operator Phone: (213) 241-3199
Owner Phone: (213) 241-3199
Owner Mail Address: 333 S BEAUDRY AVE, 21st. FL
Owner State: CA
Owner Zip Code: 90017
Owner Country: United States
Property Owner Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Property Owner Phone: (213) 241-3199
Property Owner Mailing Address: 333 S BEAUDRY AVE, 21ST. FLOOR

LAUSD - EMERGENCY OPERATIONS CENTER (Continued) **A100421702**

Property Owner City:	LOS ANGELES
Property Owner Stat :	CA
Property Owner Zip Code:	90017
Property Owner Country:	United States
EPAID:	Not reported

F26 **EARLY CHILDHOOD EDUCATION DIV** **RCRA-LQG** **1011843779**
NW **1360 W TEMPLE ST** **CAR000194571**
1/8-1/4 **LOS ANGELES, CA 90026**
0.203 mi.
1071 ft. **Site 3 of 3 in cluster F**

Relative:
Lower

Actual:
417 ft.

RCRA-LQG:

Date form received by agency:	08/07/2008
Facility name:	EARLY CHILDHOOD EDUCATION DIV
Facility address:	1360 W TEMPLE ST LOS ANGELES, CA 90026
EPA ID:	CAR000194571
Mailing address:	333 S BEAUDRY AVE LAUSD OEHS 20TH FL LOS ANGELES, CA 90017
Contact:	SOE AUNG
Contact address:	333 S BEAUDRY AVE LAUSD OEHS 20TH FL LOS ANGELES, CA 90017
Contact country:	US
Contact telephone:	213-241-3904
Contact email:	SOE.AUNG@LAUSD.NET
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Owner/operator address:	333 S BEAUDRY AVE LOS ANGELES, CA 90017
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	02/08/2005
Owner/Op end date:	Not reported
Owner/operator name:	EARLY CHILDHOOD EDUCATION DIV
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported

EARLY CHILDHOOD EDUCATION DIV (Continued) **1011843779**

Owner/operator telephone: Not reported
Legal status: District
Owner/Operator Type: Operator
Owner/Op start date: 02/08/2005
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

H27 **BANK OF AMERICAN DATA CENT** **HIST UST** **U001560494**
SE **1000 TEMPLE** **HIST CORTESE** **N/A**
1/8-1/4 **LOS ANGELES, CA 90012**
0.220 mi.
1159 ft. **Site 1 of 6 in cluster H**

Relative:
Lower

Actual:
344 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000000519
Facility Type: Other
Other Type: BANKING
Contact Name: Not reported
Telephone: 2132286430
Owner Name: BANK OF AMERICA NT & SA
Owner Address: 1000 WEST TEMPLE STREET
Owner City,St,Zip: LOS ANGELES, CA 90012
Total Tanks: 0007

Tank Num: 001
Container Num: 1
Year Installed: 1976
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002

BANK OF AMERICAN DATA CENT (Continued) **U001560494**

Container Num:	2
Year Installed:	1976
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	3
Year Installed:	1976
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	4
Year Installed:	1976
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	5
Year Installed:	1976
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	6
Year Installed:	1976
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	007
Container Num:	7
Year Installed:	1976
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA

BANK OF AMERICAN DATA CENT (Continued) **U001560494**

Reg Id: 900120116

H28 **BANK OF AMERICA NT&SA - L.A. DATA C** **AST** **A100417546**
SE **1000 W TEMPLE ST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90012**
0.220 mi.
1159 ft. **Site 2 of 6 in cluster H**

Relative:
Lower

Actual:
344 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	BANK OF AMERICA, N.A.
Total Gallons:	Not reported
CERSID:	10241563
Facility ID:	FA0003127
Business Name:	Bank of America
Phone:	(312) 228-2097
Fax:	Not reported
Mailing Address:	525 N TRYON ST, 5TH FLOOR (NC1-023-05-48)
Mailing Address City:	CHARLOTTE
Mailing Address State:	NC
Mailing Address Zip Code:	28255
Operator Name:	JONES LANG LASALLE PEMC
Operator Phone:	(312) 228-2097
Owner Phone:	(312) 228-2097
Owner Mail Address:	525 N TRYON STREET, 5TH FLOOR (NC1-023-05-48)
Owner State:	NC
Owner Zip Code:	28255
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CAL913236278

H29 **BANK OF AMERICA -DATA CENTER** **HIST UST** **S113164117**
SE **1000 W TEMPLE ST** **HAZNET** **N/A**
1/8-1/4 **LOS ANGELES, CA 90012**
0.220 mi.
1159 ft. **Site 3 of 6 in cluster H**

Relative:
Lower

Actual:
344 ft.

HIST UST:

File Number:	0002667D
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002667D.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported

BANK OF AMERICA -DATA CENTER (Continued) **S113164117**

Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

envid:	S113164117
Year:	2013
GEPAID:	CAL913236278
Contact:	Margaret Sexton
Telephone:	8605339914
Mailing Name:	Not reported
Mailing Address:	525 N TRYON STREET 5TH FL
Mailing City,St,Zip:	CHARLOTTE, NC 282550000
Gen County:	Los Angeles
TSD EPA ID:	CAT000613893
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.5
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S113164117
Year:	2013
GEPAID:	CAL913236278
Contact:	Margaret Sexton
Telephone:	8605339914
Mailing Name:	Not reported
Mailing Address:	525 N TRYON STREET 5TH FL
Mailing City,St,Zip:	CHARLOTTE, NC 282550000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.2085
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S113164117
Year:	2013
GEPAID:	CAL913236278
Contact:	Margaret Sexton
Telephone:	8605339914
Mailing Name:	Not reported
Mailing Address:	525 N TRYON STREET 5TH FL

BANK OF AMERICA -DATA CENTER (Continued) **S113164117**

Mailing City,St,Zip:	CHARLOTTE, NC 282550000
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.057
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S113164117
Year:	2013
GEPAID:	CAL913236278
Contact:	Margaret Sexton
Telephone:	8605339914
Mailing Name:	Not reported
Mailing Address:	525 N TRYON STREET 5TH FL
Mailing City,St,Zip:	CHARLOTTE, NC 282550000
Gen County:	Los Angeles
TSD EPA ID:	CAT000613893
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.03
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S113164117
Year:	2012
GEPAID:	CAL913236278
Contact:	BOB FURGALA, SR PROPERTY MGR
Telephone:	2133453070
Mailing Name:	Not reported
Mailing Address:	1000 W TEMPLE ST
Mailing City,St,Zip:	LOS ANGELES, CA 900121514
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.06
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
203 additional CA_HAZNET: record(s) in the EDR Site Report.

H30 **BANK OF AMERICA DATA CENTER** **LUST** **S105032371**
SE **1000 TEMPLE ST W** **N/A**
1/8-1/4 **LOS ANGELES, CA 90012**
0.220 mi.
1159 ft. **Site 4 of 6 in cluster H**

Relative:
Lower

Actual:
344 ft.

LUST:

Region:	STATE
Global Id:	T0603700510
Latitude:	34.0616586
Longitude:	-118.2503674
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/06/2012
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	AT
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900120116
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700510
Contact Type:	Regional Board Caseworker
Contact Name:	ARMAN TOUMARI
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	atoumari@waterboards.ca.gov
Phone Number:	2135766708

Global Id:	T0603700510
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Status History:

Global Id:	T0603700510
Status:	Completed - Case Closed
Status Date:	01/06/2012

Global Id:	T0603700510
Status:	Open - Case Begin Date
Status Date:	07/23/1987

Global Id:	T0603700510
Status:	Open - Remediation
Status Date:	11/07/1997

Global Id:	T0603700510

BANK OF AMERICA DATA CENTER (Continued) **S105032371**

Status: Open - Remediation
Status Date: 09/23/1998

Global Id: T0603700510
Status: Open - Remediation
Status Date: 10/24/2003

Global Id: T0603700510
Status: Open - Remediation
Status Date: 04/16/2004

Global Id: T0603700510
Status: Open - Remediation
Status Date: 10/22/2004

Global Id: T0603700510
Status: Open - Remediation
Status Date: 10/14/2005

Global Id: T0603700510
Status: Open - Remediation
Status Date: 10/16/2006

Global Id: T0603700510
Status: Open - Remediation
Status Date: 04/19/2007

Global Id: T0603700510
Status: Open - Site Assessment
Status Date: 07/23/1987

Global Id: T0603700510
Status: Open - Site Assessment
Status Date: 11/04/1987

Global Id: T0603700510
Status: Open - Site Assessment
Status Date: 04/10/1988

Global Id: T0603700510
Status: Open - Site Assessment
Status Date: 03/28/1989

Regulatory Activities:
Global Id: T0603700510
Action Type: RESPONSE
Date: 10/16/2007
Action: Monitoring Report - Semi-Annually

Global Id: T0603700510
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603700510
Action Type: RESPONSE
Date: 10/24/2003

BANK OF AMERICA DATA CENTER (Continued) **S105032371**

Action:	Remedial Progress Report
Global Id:	T0603700510
Action Type:	Other
Date:	04/13/1994
Action:	Leak Discovery
Global Id:	T0603700510
Action Type:	RESPONSE
Date:	01/15/2010
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603700510
Action Type:	RESPONSE
Date:	10/24/2003
Action:	Monitoring Report - Quarterly
Global Id:	T0603700510
Action Type:	RESPONSE
Date:	04/16/2004
Action:	Remedial Progress Report
Global Id:	T0603700510
Action Type:	RESPONSE
Date:	04/19/2007
Action:	Remedial Progress Report
Global Id:	T0603700510
Action Type:	RESPONSE
Date:	04/15/2009
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603700510
Action Type:	RESPONSE
Date:	01/15/2011
Action:	Remedial Progress Report
Global Id:	T0603700510
Action Type:	RESPONSE
Date:	10/15/2008
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603700510
Action Type:	RESPONSE
Date:	04/14/2008
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603700510
Action Type:	Other
Date:	02/14/1994
Action:	Leak Stopped
Global Id:	T0603700510
Action Type:	RESPONSE
Date:	10/22/2004
Action:	Remedial Progress Report

BANK OF AMERICA DATA CENTER (Continued) **S105032371**

Global Id: T0603700510
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603700510
Action Type: Other
Date: 05/03/1994
Action: Leak Reported

Global Id: T0603700510
Action Type: RESPONSE
Date: 03/06/2012
Action: Well Destruction Report

Global Id: T0603700510
Action Type: ENFORCEMENT
Date: 10/24/2003
Action: * No Action

Global Id: T0603700510
Action Type: ENFORCEMENT
Date: 01/06/2012
Action: Closure/No Further Action Letter

Global Id: T0603700510
Action Type: ENFORCEMENT
Date: 06/17/2011
Action: Site Visit / Inspection / Sampling

Global Id: T0603700510
Action Type: RESPONSE
Date: 10/16/2006
Action: Remedial Progress Report

Global Id: T0603700510
Action Type: RESPONSE
Date: 10/14/2005
Action: Remedial Progress Report

Global Id: T0603700510
Action Type: RESPONSE
Date: 11/22/2004
Action: Well Destruction Report

Global Id: T0603700510
Action Type: REMEDIATION
Date: 01/01/1997
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0603700510
Action Type: REMEDIATION
Date: 01/01/1998
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0603700510
Action Type: REMEDIATION

BANK OF AMERICA DATA CENTER (Continued) **S105032371**

Date: 09/01/1995
Action: Excavation

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	900120116	
Status:	Remedial action (cleanup) Underway	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		ED FP VE
Global ID:	T0603700510	
W Global ID:	W0605100649	
Staff:	AT	
Local Agency:	19050	
Cross Street:	TEMPLE/BEAUDRY	
Enforcement Type:	NA	
Date Leak Discovered:	4/13/1994	
Date Leak First Reported:		5/3/1994
Date Leak Record Entered:	6/3/1988	
Date Confirmation Began:	7/23/1987	
Date Leak Stopped:	2/14/1994	
Date Case Last Changed on Database:		4/17/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	Structure Failure	
Leak Source:	Piping	
Operator:	BANK OF AMERICA	
Water System:	DAVE GRIFFITH L A D W P	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2460.731394308487188983964942
Source of Cleanup Funding:		Piping
Preliminary Site Assessment Workplan Submitted:		11/4/1987
Preliminary Site Assessment Began:		4/10/1988
Pollution Characterization Began:		3/28/1989
Remediation Plan Submitted:		11/7/1997
Remedial Action Underway:		4/16/2004
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		1/1/1965
Hist Max MTBE Conc in Groundwater:		279000
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	LISA DAMERON	
RP Address:	1000 W. TEMPLE ST.	
Program:	LUST	
Lat/Long:	34.0616586 / -1	
Local Agency Staff:	PEJ	

BANK OF AMERICA DATA CENTER (Continued) **S105032371**

Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: 2600649-001GEN
Summary: (FREE PRODUCT SITE) ; 7/15/00 UST REMEDIATION PROGRAMS; 10/15/00 UST REMEDIATION PROGRAMS ENVIRON. MON 3RD QTR; 1/8/01 4THE QTR UST REMED. PROGRAMS; 4/15/01 1ST QTR GW MON RPT 2001

H31 **BANK OF AMERICA DATA CENTER** **ENVIROSTOR** **S101617131**
SE **1000 W TEMPLE ST** **SWEEPS UST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90012** **CA FID UST**
0.220 mi. **EMI**
1159 ft. **Site 5 of 6 in cluster H**

Relative:
Lower

Actual:
344 ft.

ENVIROSTOR:
Facility ID: 71003397
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 51
Senate: 24
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.06143
Longitude: -118.2517
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL913236278
Alias Type: EPA Identification Number
Alias Name: 71003397
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported

BANK OF AMERICA DATA CENTER (Continued) **S101617131**

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SWEEPS UST:
Status: Active
Comp Number: 46
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-05-93
Action Date: 03-05-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000046-000001
Tank Status: A
Capacity: 10000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 7

Status: Active
Comp Number: 46
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-05-93
Action Date: 03-05-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000046-000002
Tank Status: A
Capacity: 20000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 46
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-05-93
Action Date: 03-05-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000046-000003
Tank Status: A
Capacity: 10000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

BANK OF AMERICA DATA CENTER (Continued) **S101617131**

Status: Active
Comp Number: 46
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-05-93
Action Date: 03-05-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000046-000004
Tank Status: A
Capacity: 20000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 46
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-05-93
Action Date: 03-05-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000046-000005
Tank Status: A
Capacity: 20000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 46
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-05-93
Action Date: 03-05-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000046-000006
Tank Status: A
Capacity: 20000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 46
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-05-93
Action Date: 03-05-93

BANK OF AMERICA DATA CENTER (Continued) **S101617131**

Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000046-000007
Tank Status:	A
Capacity:	20000
Active Date:	04-20-88
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	19000855
Regulated By:	UTNKA
Regulated ID:	00000519
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2132286430
Mail To:	Not reported
Mailing Address:	1000 W TEMPLE ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900120000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	1102
Air District Name:	SC
SIC Code:	0
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	50323
Air District Name:	SC
SIC Code:	6035
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

BANK OF AMERICA DATA CENTER (Continued) **S101617131**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	50323
Air District Name:	SC
SIC Code:	6035
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	50323
Air District Name:	SC
SIC Code:	6035
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	50323
Air District Name:	SC
SIC Code:	6035
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0

BANK OF AMERICA DATA CENTER (Continued) **S101617131**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2004
County Code: 19
Air Basin: SC
Facility ID: 50323
Air District Name: SC
SIC Code: 6035
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.164376
Reactive Organic Gases Tons/Yr: 0.08
Carbon Monoxide Emissions Tons/Yr: 0.94511
NOX - Oxides of Nitrogen Tons/Yr: 1.1194
SOX - Oxides of Sulphur Tons/Yr: 0.045411
Particulate Matter Tons/Yr: 0.13822307
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.13

Year: 2009
County Code: 19
Air Basin: SC
Facility ID: 50323
Air District Name: SC
SIC Code: 6021
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.101567752999352
Reactive Organic Gases Tons/Yr: 5.0753399999999997E-2
Carbon Monoxide Emissions Tons/Yr: 0.44517499999999999
NOX - Oxides of Nitrogen Tons/Yr: 0.46258700000000003
SOX - Oxides of Sulphur Tons/Yr: 2.6341920000000001E-2
Particulate Matter Tons/Yr: 0.65946000000000005
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0.49272417439999999

Year: 2010
County Code: 19
Air Basin: SC
Facility ID: 50323
Air District Name: SC
SIC Code: 6021
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.100606879666023
Reactive Organic Gases Tons/Yr: 5.6100001570000002E-2
Carbon Monoxide Emissions Tons/Yr: 0.44217000367999998
NOX - Oxides of Nitrogen Tons/Yr: 0.79546002935000004
SOX - Oxides of Sulphur Tons/Yr: 4.6060327535000001E-2
Particulate Matter Tons/Yr: 1.3756500093999999
Part. Matter 10 Micrometers and Smllr Tons/Yr: 1.0190485691744

Year: 2011
County Code: 19
Air Basin: SC

BANK OF AMERICA DATA CENTER (Continued) **S101617131**

Facility ID:	50323
Air District Name:	SC
SIC Code:	6021
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.12077487206
Reactive Organic Gases Tons/Yr:	0.0717906722
Carbon Monoxide Emissions Tons/Yr:	0.5264128918
NOX - Oxides of Nitrogen Tons/Yr:	1.1882713485
SOX - Oxides of Sulphur Tons/Yr:	0.06466610105
Particulate Matter Tons/Yr:	1.375290764
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.0383882577

H32 **AST** **A100344346**
SE **1000 W TEMPLE ST., #24240** **N/A**
1/8-1/4 **LOS ANGELES, CA**
0.220 mi.
1159 ft. **Site 6 of 6 in cluster H**

Relative: **Lower**

Actual: **344 ft.**

AST:

Certified Unified Program Agencies:	City of Los Angeles
Owner:	BANK OF AMERICA, L.A DATA CTR
Total Gallons:	100,000
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

I33 **MARLAND CO.** **SLIC** **S104404759**
East **538 BEAUDRY** **N/A**
1/8-1/4 **LOS ANGELES, CA 90012**
0.231 mi.
1221 ft. **Site 1 of 3 in cluster I**

Relative:
Lower

Actual:
372 ft.

SLIC REG 4:

Region:	4
Facility Status:	No further action required
SLIC:	0560
Substance:	TPH
Staff:	Not reported

I34 **MARLAND CO** **SLIC** **S106483739**
East **538 N. BEAUDRY AVE** **N/A**
1/8-1/4 **LOS ANGELES, CA**
0.231 mi.
1221 ft. **Site 2 of 3 in cluster I**

Relative:
Lower

Actual:
372 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	09/26/1996
Global Id:	SL184291412
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.0649718
Longitude:	-118.2494521
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	0560
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

I35 **MARLAND COMPANY** **LUST** **S104406277**
East **1100-1154 BELLEVUE AVE** **N/A**
1/8-1/4 **LOS ANGELES, CA 90012**
0.232 mi.
1226 ft. **Site 3 of 3 in cluster I**

Relative:
Lower

Actual:
374 ft.

LUST:

Region:	STATE
Global Id:	T0603700538
Latitude:	34.065422
Longitude:	-118.251222
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/09/2000
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	Not reported
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900120434
LOC Case Number:	Not reported

MARLAND COMPANY (Continued) **S104406277**

File Location: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603700538
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Status History:
Global Id: T0603700538
Status: Completed - Case Closed
Status Date: 05/09/2000

Global Id: T0603700538
Status: Open - Case Begin Date
Status Date: 12/22/1998

Regulatory Activities:
Global Id: T0603700538
Action Type: Other
Date: 12/22/1998
Action: Leak Discovery

Global Id: T0603700538
Action Type: Other
Date: 10/18/1999
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 900120434
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Excavate and Dispose
Global ID: T0603700538
W Global ID: W0605100649
Staff: BRC
Local Agency: 19050
Cross Street: BEAUDRY AVE
Enforcement Type: Not reported
Date Leak Discovered: 12/22/1998

MARLAND COMPANY (Continued) **S104406277**

Date Leak First Reported:		10/18/1999
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		12/16/1999
Date the Case was Closed:		5/9/2000
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Tank	
Operator:	Not reported	
Water System:	DAVE GRIFFITH L A D W P	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2693.2429763065548857357746262
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	MARLAND COMPANY C/O AC MARTIN	
RP Address:	811 W. 7TH ST., LOS ANGELES, CA 90017	
Program:	SLIC	
Lat/Long:	34.0650734 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	2600649-001GEN	
Summary:	2-750 GAL, 2-500 GALL UST REMOVED 9/15/99, ONLY 1 QUARTER H2O SAMPLE.	

J36 **1346 W. COURT ST** **US BROWNFIELDS** **1018272961**
West **1346 W. COURT ST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90026**
0.235 mi.
1240 ft. **Site 1 of 3 in cluster J**

Relative:
Lower

Actual:
406 ft.

US BROWNFIELDS:

Recipient name:	City of Los Angeles - Department of Public Works
Grant type:	Assessment
Property name:	1346 W. COURT ST
Property #:	5160-011-010
Parcel size:	.1
Property Description:	This site has two houses. According to the current owner Kathryn Best bought the property from Fannie Mae, Federal National Mortgage Ass. This current site is on a suspected oil well.
Latitude:	34.064349

1346 W. COURT ST (Continued) **1018272961**

Longitude:	-118.258013
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	212641
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	2288
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	Petroleum
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	99T09601
Ownership entity:	Private
Current owner:	Kathryn Best
Did owner change:	N
Cleanup required:	Unknown
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Y
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported

1346 W. COURT ST (Continued) **1018272961**

Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

1346 W. COURT ST (Continued) **1018272961**

Highlights:	Not reported
IC Data Address:	Not reported
Redev Completition Date:	Not reported
# Below Poverty:	4308
% Below Poverty:	3.4%
# Low Income:	9396
% Low Income:	1.6%
Meidan Income:	6550
# Unemployed:	1402
% Unemployed:	10.5%
# Vacant Housing:	318
% Vacant Housing:	46.1%

K37 **METROPOLITAN WATER DIST OF SO CA** **RCRA-SQG** **1000367919**
ENE **1111 SUNSET BLVD** **FINDS** **CAD063842975**
1/8-1/4 **LOS ANGELES, CA 90012** **ECHO**
0.238 mi.
1258 ft. **Site 1 of 3 in cluster K**

Relative:
Lower

Actual:
384 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	METROPOLITAN WATER DIST OF SO CA
Facility address:	1111 SUNSET BLVD LOS ANGELES, CA 90012
EPA ID:	CAD063842975
Mailing address:	PO BOX 54153 TERMINAL ANNEX LOS ANGELES, CA 90054
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	METROPOLITAN WATER DISTRICT OF SO CA
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212

METROPOLITAN WATER DIST OF SO CA (Continued) **1000367919**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/01/1981
Site name: METROPOLITAN WATER DIST OF SO CA
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002653824

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access
1 additional FINDS: record(s) in the EDR Site Report.

ECHO:
Envid: 1000367919
Registry ID: 110002653824
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002653824

K38 **WATER DISTRICT OF SO CALIFORNI** **SWEEPS UST** **S101585789**
ENE **1111 W SUNSET BLVD** **CA FID UST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90012** **HAZNET**
0.238 mi.
1258 ft. **Site 2 of 3 in cluster K**

Relative:
Lower

Actual:
384 ft.

SWEEPS UST:

Status:	Active
Comp Number:	7278
Number:	4
Board Of Equalization:	Not reported
Referral Date:	09-21-93
Action Date:	03-18-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	19029653
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2132506000
Mail To:	Not reported
Mailing Address:	54153 TERMINAL ANNEX
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900120000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

HAZNET:

envid:	S101585789
Year:	2015
GEPAID:	CAC002842591
Contact:	JACK JENSEN
Telephone:	9496786313
Mailing Name:	Not reported
Mailing Address:	11766 WILSHIRE BLVD STE 1150
Mailing City,St,Zip:	LOS ANGELES, CA 900256551
Gen County:	Los Angeles
TSD EPA ID:	CAD009007626
TSD County:	Los Angeles
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)

WATER DISTRICT OF SO CALIFORNI (Continued) **S101585789**

Tons:	8.05
Cat Decode:	Asbestos containing waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles
envid:	S101585789
Year:	2015
GEPAID:	CAC002829317
Contact:	JACK JENSEN
Telephone:	9496786313
Mailing Name:	Not reported
Mailing Address:	8612 WILSHIRE BLVD.
Mailing City,St,Zip:	BEVERLY HILLS, CA 90211
Gen County:	Los Angeles
TSD EPA ID:	CAD009007626
TSD County:	Los Angeles
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	86.25
Cat Decode:	Asbestos containing waste
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

K39 **WATER DISTRICT OF SO CALIFORNI** **UST** **U003780511**
ENE **1111 W SUNSET BLVD** **N/A**
1/8-1/4 **LOS ANGELES, CA 90012**
0.238 mi.
1258 ft. **Site 3 of 3 in cluster K**

Relative:
Lower

Actual:
384 ft.

UST:

Facility ID:	24075
Permitting Agency:	LOS ANGELES, CITY OF
Latitude:	34.0675658
Longitude:	-118.2472657

J40 **1352 COURT ST** **US BROWNFIELDS** **1019321770**
West **1352 W. COURT ST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90026**
0.240 mi.
1267 ft. **Site 2 of 3 in cluster J**

Relative:
Lower

Actual:
402 ft.

US BROWNFIELDS:

Recipient name:	City of Los Angeles - Department of Public Works
Grant type:	Assessment
Property name:	1352 COURT ST
Property #:	5160011008
Parcel size:	.01
Property Description:	- This site is a vacant lot, site has been vacant for over 10 years. Suspected oil well on site. The previous owner of this site is Charles Willard Ward and Madeletie F. Ward, this site has been vacant for over twenty years. The current owner is Rozelle M. Predmore Trust.
	Not reported
Latitude:	34.0645884

1352 COURT ST (Continued) **1019321770**

Longitude:	-118.2579143
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	212681
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	2288
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	Petroleum
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	99T09601
Ownership entity:	Private
Current owner:	Rozelle M. Predmore Trust.
Did owner change:	N
Cleanup required:	Unknown
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Y
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported

1352 COURT ST (Continued) **1019321770**

Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

1352 COURT ST (Continued) **1019321770**

Highlights:	Not reported
IC Data Address:	Not reported
Redev Completition Date:	Not reported
# Below Poverty:	4233
% Below Poverty:	3.4%
# Low Income:	9197
% Low Income:	1.5%
Meidan Income:	6979
# Unemployed:	1366
% Unemployed:	10.4%
# Vacant Housing:	302
% Vacant Housing:	46.9%

J41 **1350 COURT** **US BROWNFIELDS** **1018272963**
West **1350 W. COURT ST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90026**
0.241 mi.
1274 ft. **Site 3 of 3 in cluster J**

Relative:
Lower

Actual:
403 ft.

US BROWNFIELDS:

Recipient name:	City of Los Angeles - Department of Public Works
Grant type:	Assessment
Property name:	1350 COURT
Property #:	5160011009
Parcel size:	.01
Property Description:	Site has been vacant for 10 years, current owner is Investco LLC, c/o David Kerr
Latitude:	34.0645823
Longitude:	-118.2579003
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	212661
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	2288
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	Petroleum
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	99T09601
Ownership entity:	Private
Current owner:	Investco LLC, c/o David Kerr
Did owner change:	N
Cleanup required:	Unknown
Video available:	No
Photo available:	Yes
Institutional controls required:	N

1350 COURT (Continued) **1018272963**

IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Y
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported

1350 COURT (Continued) **1018272963**

Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Highlights:	Not reported
IC Data Address:	Not reported
Redev Completition Date:	Not reported
# Below Poverty:	4308
% Below Poverty:	3.4%
# Low Income:	9396
% Low Income:	1.6%
Meidan Income:	6978
# Unemployed:	1402
% Unemployed:	10.5%
# Vacant Housing:	318
% Vacant Housing:	46.1%

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42 **LA FRIENDS CHILD CARE CENTER** **RCRA-SQG** **1000230595**
NNE **707 KENSINGTON RD** **FINDS** **CAD981987746**
1/8-1/4 **LOS ANGELES, CA 90066** **ECHO**
0.243 mi.
1282 ft.

Relative:
Higher

Actual:
442 ft.

RCRA-SQG:

Date form received by agency:	03/24/1987
Facility name:	LA FRIENDS CHILD CARE CENTER
Facility address:	707 KENSINGTON RD LOS ANGELES, CA 90066
EPA ID:	CAD981987746
Mailing address:	200 N MAIN RM EIGHTH HUNDREDCH LOS ANGELES, CA 90012
Contact:	ENVIRONMENTAL MANAGER
Contact address:	707 KENSINGTON RD LOS ANGELES, CA 90066
Contact country:	US

LA FRIENDS CHILD CARE CENTER (Continued) **1000230595**

Contact telephone: (213) 485-7527
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CITY OF LOS ANGELES
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002766891

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

LA FRIENDS CHILD CARE CENTER (Continued) **1000230595**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access 1 additional FINDS: record(s) in the EDR Site Report.

ECHO:
Envid: 1000230595
Registry ID: 110002766891
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002766891

---

43 **CVS PHARMACY #9674** **RCRA-LQG** **1016140188**
East **1050 WEST SUNSET BOULEVARD** **FINDS** **CAR000238139**
1/8-1/4 **LOS ANGELES, CA 90012** **ECHO**
0.243 mi.
1284 ft.

Relative:
Lower

Actual:
359 ft.

RCRA-LQG:
Date form received by agency: 03/25/2014
Facility name: CVS PHARMACY #9674
Facility address: 1050 WEST SUNSET BOULEVARD
LOS ANGELES, CA 90012
EPA ID: CAR000238139
Mailing address: ONE CVS DRIVE 23062A
WOONSOCKET, RI 02895
Contact: WENDY L BRANT
Contact address: ONE CVS DRIVE
WOONSOCKET, RI 02895
Contact country: Not reported
Contact telephone: (401) 770-7457
Contact email: WENDY.BRANT@CVSCAREMARK.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: GARFIELD BEACH CVS LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator

CVS PHARMACY #9674 (Continued) **1016140188**

Owner/Op start date: 06/02/2006
Owner/Op end date: Not reported

Owner/operator name: GARFIELD BEACH CVS LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/02/2006
Owner/Op end date: Not reported

Owner/operator name: M-4 PROPERTIES/ DON BOWERS JOINT VENTURE
Owner/operator address: S FLOWER ST STE 1200
LOS ANGELES, CA 90071
Owner/operator country: Not reported
Owner/operator telephone: (213) 614-6171
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/17/1996
Owner/Op end date: Not reported

Owner/operator name: M4 PROPERTIES DON BOWERS JOINT VENTURE
Owner/operator address: 444 S FLOWER ST STE 1200
LOS ANGELES, CA 90071
Owner/operator country: US
Owner/operator telephone: 213-614-6171
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/17/1996
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: 122

. Waste code: 123
. Waste name: 123

. Waste code: 131

CVS PHARMACY #9674 (Continued) **1016140188**

. Waste name: 131

. Waste code: 134
. Waste name: 134

. Waste code: 141
. Waste name: 141

. Waste code: 181
. Waste name: 181

. Waste code: 214
. Waste name: 214

. Waste code: 311
. Waste name: 311

. Waste code: 331
. Waste name: 331

. Waste code: 352
. Waste name: 352

. Waste code: 541
. Waste name: 541

. Waste code: 561
. Waste name: 561

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010

CVS PHARMACY #9674 (Continued) **1016140188**

. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

. Waste code: P188
. Waste name: BENZOIC ACID, 2-HYDROXY-, COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-B]INDOL--YL METHYLCARBAMATE ESTER (1:1) (OR) PHYSOSTIGMINE SALICYLATE

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U010
. Waste name: AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR) MITOMYCIN C

. Waste code: U031
. Waste name: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

CVS PHARMACY #9674 (Continued) **1016140188**

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U058
. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

. Waste code: U059
. Waste name: 5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR) DAUNOMYCIN

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U089
. Waste name: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U132
. Waste name: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U151
. Waste name: MERCURY

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

. Waste code: U201

CVS PHARMACY #9674 (Continued) **1016140188**

. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U204
. Waste name: SELENIOUS ACID (OR) SELENIUM DIOXIDE

. Waste code: U205
. Waste name: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

. Waste code: U206
. Waste name: D-GLUCOSE, 2-DEOXY-2-[[(METHYLNITROSOAMINO)-CARBONYL]AMINO]- (OR) GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-,D- (OR) STREPTOZOTOCIN

. Waste code: U210
. Waste name: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

. Waste code: U411
. Waste name: PHENOL, 2-(1-METHYLETHOXY)-, METHYLCARBAMATE (OR) PROPOXUR

Historical Generators:
Date form received by agency: 03/27/2013
Site name: CVS PHARMACY NO 9674
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D009
. Waste name: MERCURY

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Violation Status: No violations found

FINDS:

Registry ID: 110055428657

CVS PHARMACY #9674 (Continued) **1016140188**

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access
1 additional FINDS: record(s) in the EDR Site Report.

ECHO:

Envid:	1016140188
Registry ID:	110055428657
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110055428657

44
WSW
1/8-1/4
0.249 mi.
1314 ft.

BRUCE MANLEY **SWEEPS UST** **S101585541**
152 N TOLUCA ST **CA FID UST** **N/A**
LOS ANGELES, CA 90026

Relative:
Lower

Actual:
414 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	7380
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	0

CA FID UST:

Facility ID:	19024723
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2136285624
Mail To:	Not reported
Mailing Address:	152 N TOLUCA ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900260000
Contact:	Not reported

BRUCE MANLEY (Continued) **S101585541**

Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

45
ENE
1/4-1/2
0.253 mi.
1337 ft.

KATHLEEN ROSS PROPERTY **LUST** **S101297272**
1165 SUNSET BLVD W **HIST CORTESE** **N/A**
LOS ANGELES, CA 90012

Relative:
Lower

Actual:
396 ft.

LUST:
Region: STATE
Global Id: T0603700524
Latitude: 34.0668473
Longitude: -118.2496764
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/25/1998
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: AT
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 900120289
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603700524
Contact Type: Regional Board Caseworker
Contact Name: ARMAN TOUMARI
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 WEST 4TH STREET, SUITE 200
City: LOS ANGELES
Email: atoumari@waterboards.ca.gov
Phone Number: 2135766708

Global Id: T0603700524
Contact Type: Local Agency Caseworker
Contact Name: TBD
Organization Name: LOS ANGELES, CITY OF
Address: 200 N. MAIN ST. RM. 970
City: LOS ANGELES
Email: Not reported
Phone Number: 2134826528

Status History:
Global Id: T0603700524
Status: Completed - Case Closed
Status Date: 06/25/1998

Global Id: T0603700524

KATHLEEN ROSS PROPERTY (Continued) **S101297272**

Status: Open - Case Begin Date
Status Date: 04/30/1990

Global Id: T0603700524
Status: Open - Site Assessment
Status Date: 08/30/1990

Regulatory Activities:
Global Id: T0603700524
Action Type: Other
Date: 04/30/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 900120289
Status: Case Closed
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603700524
W Global ID: W0605100649
Staff: AT
Local Agency: 19050
Cross Street: BELLEVUE AVE
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 4/30/1990
Date Leak Record Entered: 12/13/1990
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 4/30/1998
Date the Case was Closed: 6/25/1998
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Operator: OLD CASE #121490-02
Water System: DAVE GRIFFITH L A D W P
Well Name: Not reported
Approx. Dist To Production Well (ft): 3205.691324933449853695979 9243
Source of Cleanup Funding: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 8/30/1990
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported

KATHLEEN ROSS PROPERTY (Continued) **S101297272**

Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: BLANK RP
RP Address: 17815 SUNBURST AVE, NORTHRIDGE, CA 91325
Program: LUST
Lat/Long: 34.0668473 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: LOP/HIGH - ADMINISTRATIVE (CLOSURE/SB2004/ENFORCEMENT)
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: 2600649-001GEN
Summary: 04/30/98 - REQUESTING A WP FOR SUBSURFACE INVESTIGAITON

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 900120289

46
NNW
1/4-1/2
0.332 mi.
1755 ft.

NORTHROP GRUMMAN CORP (WC) **ENVIROSTOR** **S103672582**
800 NO DOUGLAS **N/A**
LOS ANGELES, CA 90250

Relative:
Higher

Actual:
480 ft.

ENVIROSTOR:
Facility ID: 80001311
Status: * Inactive
Status Date: 01/01/2008
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Maria Fabella
Supervisor: Philip Chandler
Division Branch: Cleanup Chatsworth
Assembly: 62
Senate: 26
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.92767
Longitude: -118.3830
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED

NORTHROP GRUMMAN CORP (WC) (Continued) **S103672582**

Alias Name: CAD000627273
Alias Type: EPA Identification Number
Alias Name: 80001311
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 05/21/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/19/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 03/27/1992
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

L47 **G.C. HEWITT COMPANY** **ENVIROSTOR** **U001561156**
West **174 GLENDALE BLVD** **HIST UST** **N/A**
1/4-1/2 **LOS ANGELES, CA 90026**
0.339 mi.
1790 ft. **Site 1 of 2 in cluster L**

Relative:
Lower

Actual:
349 ft.

ENVIROSTOR:
Facility ID: 19510058
Status: Refer: Other Agency
Status Date: 08/15/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Chatsworth
Assembly: 51
Senate: 24
Special Program: * RCRA 3012 - Past Haz Waste Disp Inven Site
Restricted Use: NO

G.C. HEWITT COMPANY (Continued) **U001561156**

Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.06361
Longitude: -118.2594
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * Sludge - Paint
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: JAMES HUNTLEY & COMPANY
Alias Type: Alternate Name
Alias Name: CAD028523504
Alias Type: EPA Identification Number
Alias Name: 19510058
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/25/1994
Comments: Database verification project confirms NFA for DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 01/17/1984
Comments: INSPECTION(LOCAL) FIRE DEPT. 2 INSP/YR. 4 OR 5 YRS AGO RECEIVED CORRECTIVE COMMENTS ABOUT HSKPG OWNER: ROBERT & BARBARA BERG(44%) T/C W/ R.J.BERG 2/10/84 1)SOURCE ACT: CONSTRUCTION,JOB SITE WASTE-PAINT SLUDGE GENERATED & STORED ON SITE. 2)YR OF OPER 1966-PRESENT. 3)WASTE: HAULED BY J.C.INC (3650 E.26TH ST,VERNON,CA90023,213-268-3137) TO BKK LDFL,CASMALIA,& KETTLEMAN SUBMIT TO EPA PRELIM ASSESS DONE RCRA 3012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/26/1983
Comments: FACILITY IDENTIFIED ID FROM ERRIS

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000041601
Facility Type: Other

G.C. HEWITT COMPANY (Continued) **U001561156**

Other Type:	PAINTING CONTRACTOR
Contact Name:	R.J. BERG
Telephone:	2132509115
Owner Name:	G.C. HEWITT COMPANY
Owner Address:	174 GLENDALE BOULEVARD
Owner City,St,Zip:	LOS ANGELES, CA 90026
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

L48 **G C HEWITT CO** **SEMS-ARCHIVE** **1015732709**
West **174 GLENDALE BLVD** **RCRA-SQG** **CAD028523504**
1/4-1/2 **LOS ANGELES, CA 90026**
0.339 mi.
1790 ft. **Site 2 of 2 in cluster L**

Relative:
Lower

Actual:
349 ft.

SEMS-ARCHIVE:

Site ID:	901271
EPA ID:	CAD028523504
Federal Facility:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0901271
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13287647.00000
Person ID:	13003854.00000
Contact Sequence ID:	13293242.00000
Person ID:	13003858.00000
Contact Sequence ID:	13299100.00000
Person ID:	13004003.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name:	JAMES HUNTLET & CO
Alias Address:	Not reported
	CA

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	/ /
Date Completed:	04/01/81
Priority Level:	Not reported

G C HEWITT CO (Continued) **1015732709**

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 05/01/85
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 03/01/84
Date Completed: 05/01/85
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: HEWITT G C COMPANY
Facility address: 174 GLENDALE BOULEVARD
LOS ANGELES, CA 90026
EPA ID: CAD028523504
Mailing address: GLENDALE BOULEVARD
LOS ANGELES, CA 90026
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ROBERT J BERG
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

G C HEWITT CO (Continued) **1015732709**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

---

49 **MWD HEADQUARTERS GARAGE** **LUST** **S101296998**
East **610 FIGUEROA TERRACE N** **HIST CORTESE** **N/A**
1/4-1/2 **LOS ANGELES, CA 90012**
0.341 mi.
1799 ft.

Relative:
Lower

Actual:
376 ft.

LUST:

Region:	STATE
Global Id:	T0603700516
Latitude:	34.0651210100902
Longitude:	-118.247373104095
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/14/1997
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	AS
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900120207
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700516
Contact Type:	Regional Board Caseworker
Contact Name:	ADNAN SIDDIQUI
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	asiddiqui@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0603700516
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org

MWD HEADQUARTERS GARAGE (Continued) **S101296998**

Phone Number: Not reported

Status History:
Global Id: T0603700516
Status: Completed - Case Closed
Status Date: 07/14/1997

Global Id: T0603700516
Status: Open - Case Begin Date
Status Date: 05/22/1990

Global Id: T0603700516
Status: Open - Remediation
Status Date: 08/27/1990

Regulatory Activities:
Global Id: T0603700516
Action Type: Other
Date: 05/22/1990
Action: Leak Discovery

Global Id: T0603700516
Action Type: Other
Date: 08/27/1990
Action: Leak Reported

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	900120207	
Status:	Case Closed	
Substance:	Waste Oil	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603700516	
W Global ID:	W0605100649	
Staff:	AS	
Local Agency:	19050	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	5/22/1990	
Date Leak First Reported:		8/27/1990
Date Leak Record Entered:	10/15/1990	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		7/8/1997
Date the Case was Closed:		7/14/1997
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	

MWD HEADQUARTERS GARAGE (Continued) **S101296998**

Water System:	DAVE GRIFFITH L A D W P
Well Name:	Not reported
Approx. Dist To Production Well (ft):	1368.8001801505874475615552008
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	8/27/1990
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	METROPOLITAN WATER DISTRICT
RP Address:	13191 CROSSROADS PKWY N.,STE 305,CITY OF INDUSTRY 91746-3497
Program:	LUST
Lat/Long:	34.0625615 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	2600649-001GEN
Summary:	MWD REQUESTING CLOSURE 8-29-94. ASSIGNED TO NA FOR REVIEW. OLD CASE #101890-03 08/30/94-CASE ASSIGNED TO GN

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	900120207

50
ENE
1/4-1/2
0.350 mi.
1846 ft.

LA1 AND LA2 WELL SITE **SLIC** **S118504790**
806 NORTH BEAUDRY **N/A**
LOS ANGELES, CA 90012

Relative:
Lower

Actual:
405 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	02/09/2016
Global Id:	T10000008461
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.06587
Longitude:	-118.24758
Case Type:	Cleanup Program Site
Case Worker:	NLA
Local Agency:	Not reported

LA1 AND LA2 WELL SITE (Continued) **S118504790**

RB Case Number: 1359
File Location: Regional Board
Potential Media Affected: Soil
Potential Contaminants of Concern: Total Petroleum Hydrocarbons (TPH)
Site History: The Site is approximately 0.12 acres located at 806 North Beaudry Avenue in Los Angeles, California (the Site). The Site was acquired by the State of California, Division of Oil, Gas, and Geothermal Resources (DOGGR) in 1992, which until 2005, featured two oil production wells and related support infrastructure, including indications of an underground storage tank (UST) used to store oil onsite. The Site has been vacant since 2005 and is impacted with total petroleum hydrocarbons (TPH) in soil, potentially groundwater, and methane in soil gas. The State of California, Department of General Services (DGS) plans to divest the property. DGS is evaluating potential environmental issues related to divestiture of the site, and intends to implement remedial actions to reduce the site impacts to levels protective of human health and the environment.
Not reported

Click here to access the California GeoTracker records for this facility:

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51 South 1/4-1/2 0.357 mi. 1885 ft.

VISTA HERMOSA
1101 W. 1ST STREET
LOS ANGELES, CA 90012

ENVIROSTOR SCH **S107737580 N/A**

Relative: Lower

Actual: 336 ft.

ENVIROSTOR:
Facility ID: 60000001
Status: Certified / Operation & Maintenance
Status Date: 10/26/2010
Site Code: 304420
Site Type: School Cleanup
Site Type Detailed: School
Acres: 35
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Amit Pathak
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 51
Senate: 24
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.05937
Longitude: -118.2542
APN: NONE SPECIFIED
Past Use: FUEL - VEHICLE STORAGE/ REFUELING, MANUFACTURING - PETROLEUM, SCHOOL - OTHER
Potential COC: Benzene Methane Hydrogen sulfide TPH-diesel Benzo[a]pyrene
Confirmed COC: Methane Hydrogen sulfide
Potential Description: SV, IA
Alias Name: Belmont Learning Center
Alias Type: Alternate Name
Alias Name: Belmont Learning Complex

VISTA HERMOSA (Continued) **S107737580**

Alias Type: Alternate Name
Alias Name: Central Los Angeles High School #11
Alias Type: Alternate Name
Alias Name: E.R. Roybal Learning Center
Alias Type: Alternate Name
Alias Name: LAUSD-VISTA HERMOSA
Alias Type: Alternate Name
Alias Name: Vista Hermosa
Alias Type: Alternate Name
Alias Name: Vista Hermosa Park
Alias Type: Alternate Name
Alias Name: 110033614337
Alias Type: EPA (FRS #)
Alias Name: 300728
Alias Type: Project Code (Site Code)
Alias Name: 304420
Alias Type: Project Code (Site Code)
Alias Name: 19820013
Alias Type: Envirostor ID Number
Alias Name: 60000001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/06/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Annual Cost Estimate emailed and mailed to LAUSD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 01/22/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 11/13/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/22/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/28/2006
Comments: Not reported

VISTA HERMOSA (Continued) **S107737580**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/15/2016
Comments: Annual Cost Estimates Letter, dated 9/15/16, sent to LAUSD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 07/08/2008
Comments: DTSC executed an O&M agreement for ongoing monitoring at the Vista Hermosa and Roybal site

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 02/22/1999
Comments: Rec'd signed agreement and sent fully executed agreement to district

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 01/31/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 04/21/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 10/11/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/07/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

VISTA HERMOSA (Continued) **S107737580**

Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 11/07/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 01/26/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 05/02/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/21/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/26/2010
Comments: DTSC certified that the response action according to the DTSC-approved RAP is complete. Operation and maintenance is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 01/21/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/04/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/05/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Environmental Impact Report
Completed Date: 03/25/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 01/19/2005

VISTA HERMOSA (Continued) **S107737580**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 04/13/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/10/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 01/04/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 03/10/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 02/27/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 12/11/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/16/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/05/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/13/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE

VISTA HERMOSA (Continued) **S107737580**

Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/16/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 02/01/2006
Comments: First Quarter 2005 Groundwater monitoring report for OU2.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 02/07/2006
Comments: Remedial Design Document was approved pending minor revisions in accordance with the comments provided in the DTSC approval letter. Construction of school scheduled to begin in late Feb. 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/29/2003
Comments: New RI/FS for Vista Hermosa was submitted to DTSC on 9/29/03.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 08/29/2002
Comments: Fieldwork on 8/22/02

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 10/29/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 05/10/2005
Comments: Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 05/06/2008
Comments: Vista Hermosa Park RACR approved on 5/6/08

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 07/18/2008
Comments: Proposed Central Los Angeles HS #11 RACR approved on 7/18/2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

VISTA HERMOSA (Continued) **S107737580**

Completed Document Type: Operations and Maintenance Plan
Completed Date: 07/18/2008
Comments: site approved for occupany on 7/17/2008

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/20/2010
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future field work/reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/21/2010
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future field work/reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/17/2010
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future field work/reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/08/2011
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future field work/reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/12/2012
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future field work/reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/23/2009
Comments: Historical O&M report uploaded

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/11/2009
Comments: Historical O&M report uploaded

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/04/2009
Comments: Historical O&M report uploaded

VISTA HERMOSA (Continued) **S107737580**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/29/2008
Comments: Historical O&M report uploaded

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/31/2008
Comments: Historical O&M report uploaded

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/21/2008
Comments: Historical O&M report uplodaded

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/19/2008
Comments: Historical O&M report uploaded

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/26/2009
Comments: Historical O&M report uploaded

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/27/2009
Comments: Historical O&M report uploaded

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/24/2011
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/26/2011
Comments: DTSC approved the methane mitigation system design at the new Emergency Operation Center building.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 08/10/2011
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future field work/reports

VISTA HERMOSA (Continued) **S107737580**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/07/2012
Comments: DTSC approved the O&M report provided DTSC comments are addressed during future field work/reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 08/16/2012
Comments: DTSC approved the O&M report provided DTSC comments are addressed in future reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 02/25/2014
Comments: DTSC approved the report with comments

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/27/2012
Comments: DTSC approved the report provide comments are addressed in future fieldwork/reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/03/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 08/29/2013
Comments: DTSC approval of baseline testing for EOC

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 07/15/2014
Comments: DTSC approved the report provided DTSC comments are addressed in the field/future reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/16/2014
Comments: DTSC approved the workplan provided reporting requirements are incorporated into the site monitoring plan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/18/2014

VISTA HERMOSA (Continued) **S107737580**

Comments: DTSC approved the revised oil well abandonment workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/29/2015
Comments: DTSC approved the O&M report provided DTSC comments are addressed in future reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/06/2015
Comments: Concurred with the comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/26/2015
Comments: DTSC submitted comments electronically on the report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/04/2015
Comments: Concurred with the Report with a comment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/11/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/04/2016
Comments: Concurred with the Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/24/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/07/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 05/31/2006
Comments: Not reported

VISTA HERMOSA (Continued) **S107737580**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	12/06/2003
Comments:	Not reported
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Report
Future Due Date:	2017
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	02/13/2017
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	05/16/2017
Schedule Revised Date:	Not reported

SCH:

Facility ID:	60000001
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	35
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Amit Pathak
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304420
Assembly:	51
Senate:	24
Special Program Status:	Not reported
Status:	Certified / Operation & Maintenance
Status Date:	10/26/2010
Restricted Use:	NO
Funding:	School District
Latitude:	34.05937
Longitude:	-118.2542
APN:	NONE SPECIFIED
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING, MANUFACTURING - PETROLEUM, SCHOOL - OTHER
Potential COC:	Benzene, Methane, Hydrogen sulfide, TPH-diesel, Benzo[a]pyrene

52
WNW
1/4-1/2
0.365 mi.
1926 ft.

TEMPLE
1500-1513 W TEMPLE ST
LOS ANGELES, CA 90026

US BROWNFIELDS **1016679969**
N/A

Relative:
Lower

Actual:
385 ft.

US BROWNFIELDS:

Recipient name:	Los Angeles, City of
Grant type:	Assessment
Property name:	TEMPLE
Property #:	Not reported
Parcel size:	.07
Property Description:	Not reported
Latitude:	34.068075
Longitude:	-118.2593782
HCM label:	Not reported
Map scale:	Not reported
Point of reference:	Not reported
Datum:	North American Datum of 1983
ACRES property ID:	165729
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	5590
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	Petroleum
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	0
Cooperative agreement #:	96934601
Ownership entity:	Not reported
Current owner:	Not reported
Did owner change:	Not reported
Cleanup required:	Yes
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Y
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported

TEMPLE (Continued) **1016679969**

Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Y
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Y
Cadmium contaminant found:	Y
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported

TEMPLE (Continued) **1016679969**

No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Highlights:	Not reported
IC Data Address:	Not reported
Redev Completition Date:	Not reported
# Below Poverty:	3886
% Below Poverty:	3.7%
# Low Income:	8446
% Low Income:	1.7%
Meidan Income:	6576
# Unemployed:	1318
% Unemployed:	10.8%
# Vacant Housing:	375
% Vacant Housing:	37.8%

Recipient name:	Los Angeles, City of
Grant type:	Assessment
Property name:	TEMPLE
Property #:	Not reported
Parcel size:	.07
Property Description:	Not reported
Latitude:	34.068075
Longitude:	-118.2593782
HCM label:	Not reported
Map scale:	Not reported
Point of reference:	Not reported
Datum:	North American Datum of 1983
ACRES property ID:	165729
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	5447
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	Petroleum
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	96934601
Ownership entity:	Not reported
Current owner:	Not reported

TEMPLE (Continued) **1016679969**

Did owner change:	Not reported
Cleanup required:	Yes
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Y
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Y
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported

TEMPLE (Continued) **1016679969**

Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Y
Cadmium contaminant found:	Y
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Highlights:	Not reported
IC Data Address:	Not reported
Redev Completition Date:	Not reported
# Below Poverty:	3886
% Below Poverty:	3.7%
# Low Income:	8446
% Low Income:	1.7%
Meidan Income:	6576
# Unemployed:	1318
% Unemployed:	10.8%
# Vacant Housing:	375
% Vacant Housing:	37.8%

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53 **CENTRAL STREET MDY** **SWF/LF** **S102360692**
SW **1274 WEST SECOND STREET** **N/A**
1/4-1/2 **LOS ANGELES (CITY), CA**
0.378 mi.
1994 ft.

Relative:
Lower

Actual:
334 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	19-AA-0805
Lat/Long:	34.06015 / -118.25796
Owner Name:	City Of Los Angeles Bur Of Street Maint
Owner Telephone:	2134855630
Owner Address:	Not reported

CENTRAL STREET MDY (Continued) **S102360692**

Owner Address2:	600 South Spring Street, Suite 1200
Owner City,St,Zip:	Los Angeles, CA 90014
Operational Status:	Active
Operator:	City Of Los Angeles Bur Of Street Maint
Operator Phone:	2134855630
Operator Address:	Not reported
Operator Address2:	600 South Spring Street, Suite 1200
Operator City,St,Zip:	Los Angeles, CA 90014
Permit Date:	07/10/2002
Permit Status:	Notification
Permitted Acreage:	Not reported
Activity:	Limited Volume Transfer Operation
Regulation Status:	Notification
Landuse Name:	Industrial
GIS Source:	Map
Category:	Transfer/Processing
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Construction/demolition,Green Materials,Mixed municipal
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	19-AA-0805
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	60
Actual Throughput with Units:	Cu Yards/day
Permitted Capacity with Units:	15000
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Cu Yards/year
Lat/Long:	34.06015 / -118.25796

M54 **BELMONT LEARNING CENTER** **ENVIROSTOR** **S118756565**
South **1ST STREET/BEAUDRY** **SCH** **N/A**
1/4-1/2 **LOS ANGELES, CA 90012**
0.380 mi.
2006 ft. **Site 1 of 2 in cluster M**

Relative:
Lower

Actual:
343 ft.

ENVIROSTOR:

Facility ID:	19820013
Status:	No Action Required
Status Date:	09/04/2003
Site Code:	300728
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	39
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	51
Senate:	24
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District

BELMONT LEARNING CENTER (Continued) **S118756565**

Latitude: 34.05903
Longitude: -118.2532
APN: NONE SPECIFIED
Past Use: * EDUCATIONAL SERVICES, FUEL - VEHICLE STORAGE/ REFUELING, OIL FIELD, RESIDENTIAL AREA, VEHICLE MAINTENANCE
Potential COC: * UNSPECIFIED OIL CONTAINING WASTE Methane Benzo[a]pyrene TPH-diesel Hydrogen sulfide Benzene
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL, SV
Alias Name: BELMONT LEARNING CENTER
Alias Type: Alternate Name
Alias Name: BELMONT LEARNING CENTER
Alias Type: Alternate Name
Alias Name: BELMONT LEARNING COMPLEX
Alias Type: Alternate Name
Alias Name: LAUSD BELMONT LEARNING CENTER
Alias Type: Alternate Name
Alias Name: VISTA HERMOSA
Alias Type: Alternate Name
Alias Name: 300728
Alias Type: Project Code (Site Code)
Alias Name: 19820013
Alias Type: Envirostor ID Number
Alias Name: 60000001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/04/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 01/21/2003
Comments: accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/01/2003
Comments: accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 08/29/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/29/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE

BELMONT LEARNING CENTER (Continued) **S118756565**

Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 02/25/1999
Comments: Sent fully executed agreement to district

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/05/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 01/21/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19820013
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 39
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 300728
Assembly: 51
Senate: 24
Special Program Status: Not reported
Status: No Action Required
Status Date: 09/04/2003
Restricted Use: NO
Funding: School District
Latitude: 34.05903
Longitude: -118.2532

BELMONT LEARNING CENTER (Continued) **S118756565**

APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES, FUEL - VEHICLE STORAGE/ REFUELING, OIL FIELD, RESIDENTIAL AREA, VEHICLE MAINTENANCE
Potential COC:	* UNSPECIFIED OIL CONTAINING WASTE, Methane, Benzo[a]pyrene, TPH-diesel, Hydrogen sulfide, Benzene
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SV
Alias Name:	BELMONT LEARNING CENTER
Alias Type:	Alternate Name
Alias Name:	BELMONT LEARNING CENTER
Alias Type:	Alternate Name
Alias Name:	BELMONT LEARNING COMPLEX
Alias Type:	Alternate Name
Alias Name:	LAUSD BELMONT LEARNING CENTER
Alias Type:	Alternate Name
Alias Name:	VISTA HERMOSA
Alias Type:	Alternate Name
Alias Name:	300728
Alias Type:	Project Code (Site Code)
Alias Name:	19820013
Alias Type:	Envirostor ID Number
Alias Name:	60000001
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	09/04/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	01/21/2003
Comments:	accepted
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	05/01/2003
Comments:	accepted
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	08/29/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	10/29/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement

BELMONT LEARNING CENTER (Continued) **S118756565**

Completed Date:	02/25/1999
Comments:	Sent fully executed agreement to district
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	09/05/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	01/21/2003
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

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55 **SERVICE STATION (FORMER)** **LUST** **S106875405**
SW **1304 2ND ST** **N/A**
1/4-1/2 **LOS ANGELES, CA 90026**
0.407 mi.
2147 ft.

Relative:
Lower

Actual:
339 ft.

LUST:

Region:	STATE
Global Id:	T0603780279
Latitude:	33.880095
Longitude:	-118.391397
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/03/2007
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	MB
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900260343
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

SERVICE STATION (FORMER) (Continued) **S106875405**

Global Id: T0603780279
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603780279
Contact Type: Regional Board Caseworker
Contact Name: MAGDY BAIADY
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: LOS ANGELES
Email: mbaiady@waterboards.ca.gov
Phone Number: 2135766699

Status History:
Global Id: T0603780279
Status: Completed - Case Closed
Status Date: 01/03/2007

Global Id: T0603780279
Status: Open - Case Begin Date
Status Date: 03/29/2002

Global Id: T0603780279
Status: Open - Remediation
Status Date: 05/19/2005

Global Id: T0603780279
Status: Open - Site Assessment
Status Date: 03/29/2002

Global Id: T0603780279
Status: Open - Site Assessment
Status Date: 12/07/2004

Global Id: T0603780279
Status: Open - Site Assessment
Status Date: 04/27/2005

Regulatory Activities:
Global Id: T0603780279
Action Type: ENFORCEMENT
Date: 10/11/2006
Action: Site Visit / Inspection / Sampling

Global Id: T0603780279
Action Type: ENFORCEMENT
Date: 10/31/2006
Action: Notification - Preclosure

Global Id: T0603780279
Action Type: ENFORCEMENT

SERVICE STATION (FORMER) (Continued) **S106875405**

Date: 11/28/2005
Action: Site Visit / Inspection / Sampling

Global Id: T0603780279
Action Type: RESPONSE
Date: 08/31/2005
Action: Soil and Water Investigation Workplan

Global Id: T0603780279
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603780279
Action Type: RESPONSE
Date: 09/20/2005
Action: Soil and Water Investigation Workplan

Global Id: T0603780279
Action Type: RESPONSE
Date: 10/31/2005
Action: Soil and Water Investigation Report

Global Id: T0603780279
Action Type: RESPONSE
Date: 09/07/2006
Action: Request for Closure

Global Id: T0603780279
Action Type: ENFORCEMENT
Date: 04/18/2005
Action: Staff Letter

Global Id: T0603780279
Action Type: ENFORCEMENT
Date: 09/06/2005
Action: Staff Letter

Global Id: T0603780279
Action Type: ENFORCEMENT
Date: 01/25/2006
Action: Staff Letter

Global Id: T0603780279
Action Type: ENFORCEMENT
Date: 01/03/2007
Action: Closure/No Further Action Letter

Global Id: T0603780279
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603780279
Action Type: ENFORCEMENT
Date: 08/04/2005
Action: Staff Letter

SERVICE STATION (FORMER) (Continued) **S106875405**

Global Id:	T0603780279
Action Type:	Other
Date:	12/07/2004
Action:	Leak Reported
Global Id:	T0603780279
Action Type:	ENFORCEMENT
Date:	02/21/2005
Action:	Site Visit / Inspection / Sampling
Global Id:	T0603780279
Action Type:	ENFORCEMENT
Date:	02/20/2005
Action:	Site Visit / Inspection / Sampling
Global Id:	T0603780279
Action Type:	Other
Date:	12/07/2004
Action:	Leak Discovery
Global Id:	T0603780279
Action Type:	RESPONSE
Date:	08/31/2005
Action:	Other Report / Document
Global Id:	T0603780279
Action Type:	RESPONSE
Date:	04/05/2005
Action:	Soil and Water Investigation Report
Global Id:	T0603780279
Action Type:	RESPONSE
Date:	06/21/2005
Action:	CAP/RAP - Other Report
Global Id:	T0603780279
Action Type:	RESPONSE
Date:	04/15/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0603780279
Action Type:	REMEDIATION
Date:	05/09/2005
Action:	Excavation

M56 **FIRE STATION #3** **LUST** **S105035331**
South **108 FREMONT AVE N** **N/A**
1/4-1/2 **LOS ANGELES, CA 90012**
0.421 mi.
2224 ft. **Site 2 of 2 in cluster M**

Relative:
Lower

Actual:
322 ft.

LUST:

Region:	STATE
Global Id:	T0603700532
Latitude:	34.0583237
Longitude:	-118.2528884
Case Type:	LUST Cleanup Site

FIRE STATION #3 (Continued) **S105035331**

Status: Open - Remediation
Status Date: 07/26/2011
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: CET
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 900120361
LOC Case Number: 3910
File Location: Regional Board
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603700532
Contact Type: Regional Board Caseworker
Contact Name: CHANDRA TYLER
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: cetyler@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603700532
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Status History:
Global Id: T0603700532
Status: Open - Case Begin Date
Status Date: 06/13/1986

Global Id: T0603700532
Status: Open - Referred
Status Date: 06/11/2003

Global Id: T0603700532
Status: Open - Remediation
Status Date: 07/26/2011

Global Id: T0603700532
Status: Open - Site Assessment
Status Date: 06/16/1986

Global Id: T0603700532
Status: Open - Site Assessment
Status Date: 07/07/2003

Regulatory Activities:
Global Id: T0603700532
Action Type: ENFORCEMENT

FIRE STATION #3 (Continued) **S105035331**

Date: 07/07/2003
Action: Staff Letter

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 09/27/2010
Action: Staff Letter

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 03/08/2012
Action: Staff Letter

Global Id: T0603700532
Action Type: RESPONSE
Date: 02/01/2012
Action: Soil and Water Investigation Workplan

Global Id: T0603700532
Action Type: RESPONSE
Date: 02/01/2012
Action: Soil and Water Investigation Workplan

Global Id: T0603700532
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: RESPONSE
Date: 12/26/2011
Action: CAP/RAP - Feasibility Study Report

Global Id: T0603700532
Action Type: RESPONSE
Date: 10/29/2008
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603700532
Action Type: RESPONSE
Date: 06/21/2010
Action: Other Report / Document

Global Id: T0603700532
Action Type: RESPONSE
Date: 01/15/2011
Action: Soil and Water Investigation Report

Global Id: T0603700532
Action Type: RESPONSE
Date: 10/28/2010
Action: Remedial Progress Report

Global Id: T0603700532
Action Type: RESPONSE
Date: 01/15/2016
Action: Monitoring Report - Semi-Annually

FIRE STATION #3 (Continued) **S105035331**

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 04/02/2014
Action: Waste Discharge Requirements

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 08/04/2011
Action: Staff Letter

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 08/29/2008
Action: Staff Letter

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 10/04/2010
Action: Staff Letter

Global Id: T0603700532
Action Type: RESPONSE
Date: 12/27/2010
Action: Pilot Study / Treatability Workplan

Global Id: T0603700532
Action Type: RESPONSE
Date: 01/27/2008
Action: Soil and Water Investigation Report

Global Id: T0603700532
Action Type: RESPONSE
Date: 07/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: RESPONSE
Date: 08/31/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 01/07/2014
Action: Staff Letter

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 01/14/2014
Action: Waste Discharge Requirements

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603700532
Action Type: RESPONSE

FIRE STATION #3 (Continued) **S105035331**

Date: 08/08/2003
Action: Other Report / Document

Global Id: T0603700532
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603700532
Action Type: RESPONSE
Date: 07/15/2016
Action: Remedial Progress Report

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 09/06/2013
Action: Staff Letter

Global Id: T0603700532
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603700532
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603700532
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: Other
Date: 06/16/1986
Action: Leak Stopped

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 05/26/2016
Action: Staff Letter

Global Id: T0603700532
Action Type: RESPONSE
Date: 06/15/2012
Action: Site Assessment Report

Global Id: T0603700532
Action Type: RESPONSE
Date: 06/15/2012
Action: Corrective Action Plan / Remedial Action Plan

FIRE STATION #3 (Continued) **S105035331**

Global Id: T0603700532
Action Type: RESPONSE
Date: 01/15/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: Other
Date: 06/13/1986
Action: Leak Discovery

Global Id: T0603700532
Action Type: Other
Date: 06/16/1986
Action: Leak Reported

Global Id: T0603700532
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603700532
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: RESPONSE
Date: 01/15/2011
Action: Soil and Water Investigation Report

Global Id: T0603700532
Action Type: RESPONSE
Date: 12/27/2010
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603700532
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: ENFORCEMENT
Date: 07/26/2011
Action: Staff Letter

Global Id: T0603700532
Action Type: RESPONSE
Date: 01/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: RESPONSE
Date: 12/20/2011
Action: Well Installation Workplan

Global Id: T0603700532
Action Type: RESPONSE

FIRE STATION #3 (Continued) **S105035331**

Date: 07/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: RESPONSE
Date: 12/26/2011
Action: Pilot Study/ Treatability Report

Global Id: T0603700532
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: RESPONSE
Date: 09/29/2008
Action: Soil and Water Investigation Workplan

Global Id: T0603700532
Action Type: RESPONSE
Date: 04/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603700532
Action Type: RESPONSE
Date: 04/15/2014
Action: Soil and Water Investigation Report

Global Id: T0603700532
Action Type: RESPONSE
Date: 04/15/2014
Action: Remedial Progress Report

Global Id: T0603700532
Action Type: RESPONSE
Date: 04/15/2014
Action: Soil and Water Investigation Report

Global Id: T0603700532
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603700532
Action Type: REMEDIATION
Date: 07/30/2009
Action: Pump & Treat (P&T) Groundwater

Global Id: T0603700532
Action Type: REMEDIATION
Date: 09/08/2014
Action: In Situ Physical/Chemical Treatment (other than SVE)

FIRE STATION #3 (Continued) **S105035331**

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	900120361	
Status:	Leak being confirmed	
Substance:	Diesel	
Substance Quantity:	Not reported	
Local Case No:	3910	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603700532	
W Global ID:	W0605100649	
Staff:	CEC	
Local Agency:	19050	
Cross Street:	1ST ST	
Enforcement Type:	SEL	
Date Leak Discovered:	6/13/1986	
Date Leak First Reported:		6/16/1986
Date Leak Record Entered:	12/31/1986	
Date Confirmation Began:	6/16/1986	
Date Leak Stopped:	6/16/1986	
Date Case Last Changed on Database:		9/21/1999
Date the Case was Closed:		Not reported
How Leak Discovered:	Tank Test	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Piping	
Operator:	Not reported	
Water System:	DAVE GRIFFITH L A D W P	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		3281.05646670901218951175854 45
Source of Cleanup Funding:		Piping
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	MR. RENE VILLA-AGUSTIN	
RP Address:	419 S. SPRING ST., 12TH FL.	
Program:	LUST	
Lat/Long:	34.0583237 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	

FIRE STATION #3 (Continued) **S105035331**

Assigned Name: 2600649-001GEN
Summary: ALSO RP ADDRESS (419 S. SPRING ST., 12TH FL., LOS ANGELES, CA 90013)

N57 **SERVICE SATTION 0253** **LUST** **S103675558**
ESE **900 SUNSET BOULEVARD** **HIST UST** **N/A**
1/4-1/2 **LOS ANGELES, CA 90012** **HIST CORTESE**
0.430 mi.
2268 ft. **Site 1 of 2 in cluster N**

Relative:
Lower

Actual:
360 ft.

LUST:

Region:	STATE
Global Id:	T0603700502
Latitude:	34.0627746027386
Longitude:	-118.247029781342
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/22/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900120034
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700502
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603700502
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603700502
Status:	Completed - Case Closed
Status Date:	07/22/1996

Global Id:	T0603700502
Status:	Open - Case Begin Date
Status Date:	10/22/1985

Global Id:	T0603700502

SERVICE SATTION 0253 (Continued) **S103675558**

Status: Open - Site Assessment
Status Date: 04/22/1988

Regulatory Activities:
Global Id: T0603700502
Action Type: Other
Date: 10/22/1985
Action: Leak Reported

HIST UST:
File Number: 00028389
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028389.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 900120034

N58 **UNOCAL #0253** **LUST** **S104406269**
ESE **900 SUNSET BLVD** **N/A**
1/4-1/2 **LOS ANGELES, CA 90012**
0.430 mi.
2268 ft. **Site 2 of 2 in cluster N**

Relative:
Lower

Actual:
360 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	900120034	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Remove Free Product
Global ID:	T0603700502	
W Global ID:	W0605100649	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		10/22/1985
Date Leak Record Entered:	12/31/1986	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		6/30/1998
Date the Case was Closed:		7/22/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	DAVE GRIFFITH L A D W P	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1435.31608282707829002831132 77
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		4/22/1988
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	UNOCAL CORPORATION	
RP Address:	17700 CASTLETON ST, SUITE 500, INDUSTRY CA 91728	
Program:	LUST	
Lat/Long:	34.0624755 / -1	
Local Agency Staff:	PEJ	

UNOCAL #0253 (Continued) **S104406269**

Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	2600649-001GEN
Summary:	TANKS AND CONTAMINATED SOIL REMOVED. NO FURTHER ACTION REQUIRED. 06/30/98 - WELL ABANDONMENT RPT

O59 **PROPOSED ROCKWOOD CHARTER SCHOOL** **ENVIROSTOR** **S117038712**
West **1552 ROCKWOOD STREET** **VCP** **N/A**
1/4-1/2 **LOS ANGELES, CA 90026** **DEED**
0.444 mi.
2342 ft. **Site 1 of 2 in cluster O**

Relative:
Lower

Actual:
402 ft.

ENVIROSTOR:

Facility ID:	60002072
Status:	Active
Status Date:	08/27/2015
Site Code:	401680
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.22
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Xihong (Scarlett) Zhai
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	51
Senate:	24
Special Program:	Voluntary Cleanup Program
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.06304
Longitude:	-118.2619
APN:	5159-013-010, 5159-013-013, 5159-013-014, 5159-013-015, 5159-013-016, 5159-013-017, 5159-013-018, 5159-013-019, 5159-014-001
Past Use:	OIL FIELD
Potential COC:	Under Investigation Lead Methane TPH-diesel TPH-gas TPH-MOTOR OIL Cadmium and compounds Copper and compounds
Confirmed COC:	Lead Methane TPH-diesel TPH-gas Copper and compounds Under Investigation
Potential Description:	SOIL, SV
Alias Name:	5159-013-010
Alias Type:	APN
Alias Name:	5159-013-013
Alias Type:	APN
Alias Name:	5159-013-014
Alias Type:	APN
Alias Name:	5159-013-015
Alias Type:	APN
Alias Name:	5159-013-016
Alias Type:	APN
Alias Name:	5159-013-017
Alias Type:	APN
Alias Name:	5159-013-018

PROPOSED ROCKWOOD CHARTER SCHOOL (Continued) **S117038712**

Alias Type: APN
Alias Name: 5159-013-019
Alias Type: APN
Alias Name: 5159-014-001
Alias Type: APN
Alias Name: 401680
Alias Type: Project Code (Site Code)
Alias Name: 60002072
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2016
Comments: Annual Cost Estimate letter sent to RP on 9/14/16.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2015
Comments: Annual Cost Estimate emailed and mailed to BP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/27/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/17/2014
Comments: DTSC partially approved the PEA Workplan in an email dated 10/13/2014, with methane sampling issue pending further discussion. Upon discussion during the site visit on 10/17/2014, an agreement was reached that methane samples would be collected at the remaining soil gas probes.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/29/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 08/11/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/24/2015
Comments: DTSC approved the fact sheet for distribution.

Completed Area Name: PROJECT WIDE

PROPOSED ROCKWOOD CHARTER SCHOOL (Continued) **S117038712**

Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 06/30/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/28/2015
Comments: DTSC approved the Removal Action Completion Report provided DTSC comments are incorporated in the final operation and maintenance plan. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/22/2016
Comments: DTSC approved the operation and maintenance report provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 12/07/2015
Comments: The O&M plan included in the RACR was revised in response to DTSC's comments, and this final version is approved for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 08/21/2015
Comments: Vapor intrusion mitigation measurement is applied to the entire campus of Rockwood Charter High School. Dig restriction and soil management are applied to the four parcels (5159-013-017, 5159-013-018, 5159-013-010, 5159-014-001) where soil impact was identified at depth beyond 8 feet.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 04/28/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 06/06/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date: 07/01/2015
Comments: The DTSC approved the Addendum to Initial Study/Mitigated Negative Declaration.

Future Area Name: PROJECT WIDE

PROPOSED ROCKWOOD CHARTER SCHOOL (Continued) **S117038712**

Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Report
Future Due Date:	2017
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	11/02/2016
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	03/05/2017
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	08/03/2016
Schedule Revised Date:	11/02/2016

VCP:

Facility ID:	60002072
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.22
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Xihong (Scarlett) Zhai
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	401680
Assembly:	51
Senate:	24
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	08/27/2015
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	34.06304 / -118.2619
APN:	5159-013-010, 5159-013-013, 5159-013-014, 5159-013-015, 5159-013-016, 5159-013-017, 5159-013-018, 5159-013-019, 5159-014-001
Past Use:	OIL FIELD
Potential COC:	31001, 30013, 30015, 30024, 30025, 3002502, 30108, 30156
Confirmed COC:	30013,30015,30024,30025,30156,31001
Potential Description:	SOIL, SV
Alias Name:	5159-013-010
Alias Type:	APN
Alias Name:	5159-013-013
Alias Type:	APN
Alias Name:	5159-013-014
Alias Type:	APN
Alias Name:	5159-013-015
Alias Type:	APN
Alias Name:	5159-013-016
Alias Type:	APN

PROPOSED ROCKWOOD CHARTER SCHOOL (Continued) **S117038712**

Alias Name: 5159-013-017
Alias Type: APN
Alias Name: 5159-013-018
Alias Type: APN
Alias Name: 5159-013-019
Alias Type: APN
Alias Name: 5159-014-001
Alias Type: APN
Alias Name: 401680
Alias Type: Project Code (Site Code)
Alias Name: 60002072
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2016
Comments: Annual Cost Estimate letter sent to RP on 9/14/16.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2015
Comments: Annual Cost Estimate emailed and mailed to BP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/27/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/17/2014
Comments: DTSC partially approved the PEA Workplan in an email dated 10/13/2014, with methane sampling issue pending further discussion. Upon discussion during the site visit on 10/17/2014, an agreement was reached that methane samples would be collected at the remaining soil gas probes.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/29/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 08/11/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/24/2015

PROPOSED ROCKWOOD CHARTER SCHOOL (Continued) **S117038712**

Comments: DTSC approved the fact sheet for distribution.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 06/30/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/28/2015
Comments: DTSC approved the Removal Action Completion Report provided DTSC comments are incorporated in the final operation and maintenance plan.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/22/2016
Comments: DTSC approved the operation and maintenance report provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 12/07/2015
Comments: The O&M plan included in the RACR was revised in response to DTSC's comments, and this final version is approved for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 08/21/2015
Comments: Vapor intrusion mitigation measurement is applied to the entire campus of Rockwood Charter High School. Dig restriction and soil management are applied to the four parcels (5159-013-017, 5159-013-018, 5159-013-010, 5159-014-001) where soil impact was identified at depth beyond 8 feet.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 04/28/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 06/06/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date: 07/01/2015
Comments: The DTSC approved the Addendum to Initial Study/Mitigated Negative

PROPOSED ROCKWOOD CHARTER SCHOOL (Continued) **S117038712**

Declaration.

Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Report
Future Due Date:	2017
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	11/02/2016
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	03/05/2017
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	08/03/2016
Schedule Revised Date:	11/02/2016

DEED:

Envirostor ID:	60002072
Area:	PROJECT WIDE
Sub Area:	Not reported
Site Type:	VOLUNTARY CLEANUP
Status:	ACTIVE
Agency:	Not reported
Covenant Uploaded:	Not reported
Deed Date(s):	08/21/2015

P60 **CIVIC CENTER DIST. HEADQUARTER** **LUST** **S105051331**
SSW **1141 002ND ST W** **N/A**
1/4-1/2 **ECHO PARK, CA 90026**
0.448 mi.
2366 ft. **Site 1 of 5 in cluster P**

Relative:
Lower

Actual:
322 ft.

LUST:

Region:	STATE
Global Id:	T0603700708
Latitude:	34.0582697
Longitude:	-118.2556835
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/15/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900260034
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

CIVIC CENTER DIST. HEADQUARTER (Continued) **S105051331**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700708
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603700708
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603700708
Status:	Completed - Case Closed
Status Date:	10/15/1996

Global Id:	T0603700708
Status:	Open - Case Begin Date
Status Date:	03/21/1990

Global Id:	T0603700708
Status:	Open - Site Assessment
Status Date:	03/21/1990

Regulatory Activities:

Global Id:	T0603700708
Action Type:	Other
Date:	03/21/1990
Action:	Leak Reported

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	900260034	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603700708	
W Global ID:	W0607701254	
Staff:	UNK	

CIVIC CENTER DIST. HEADQUARTER (Continued) **S105051331**

Local Agency:	19050	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		3/21/1990
Date Leak Record Entered:	4/3/1990	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		1/29/1997
Date the Case was Closed:		10/15/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	Not reported	
Water System:	UNOCAL - JIM SCOTT	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		3086.9213418735568453667482608
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		3/21/1990
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	DWP, CITY OF LOS ANGELES	
RP Address:	111 N HOPE ST, RM 1116, LOS ANGELES CA 90012	
Program:	LUST	
Lat/Long:	34.0582697 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	3901254-001GEN	
Summary:	01/29/97 - WELL ABONDONMENT REPORT	

P61 **CIVIC CENTER DIST. HEADQU** **HIST CORTESE** **S101297399**
SSW **1141 002ND** **N/A**
1/4-1/2 **LOS ANGELES, CA 90026**
0.449 mi.
2370 ft. **Site 2 of 5 in cluster P**

Relative:
Lower

Actual:
322 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	900260034

O62 **ROCKWOOD PARK** **US BROWNFIELDS** **1016356342**
West **1544-1556 COLTON** **FINDS** **N/A**
1/4-1/2 **LOS ANGELES, CA 90026**
0.451 mi.
2381 ft. **Site 2 of 2 in cluster O**

Relative:
Lower

Actual:
386 ft.

US BROWNFIELDS:

Recipient name:	California Department of Toxic Substances Control
Grant type:	BCRLF
Property name:	ROCKWOOD PARK
Property #:	5159015900-903
Parcel size:	.42
Property Description:	During the early 20th century this half-acre site was part of a large oil field. Redevelopment of the site was complicated because of the need to negotiate purchase prices with three separate owners. They City must pay fair market value, so this process was lengthy. Also, challenge was the steeo topography and odd shape making excavations and grading a bit of a challenge.
Latitude:	34.064135
Longitude:	-118.26173699999998
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	119841
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	694556
Redev. funding source:	Local Funding
Redev. funding entity name:	Prop 12 2/3 Capita
Redevelopment start date:	03/01/2011 00:00:00
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	Hazardous & Petroleum
Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	96987501
Ownership entity:	Government
Current owner:	City of Los Angeles
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	09/30/2009 00:00:00
State/tribal program ID:	Not reported
State/tribal NFA date:	02/23/2011 00:00:00
Air contaminated:	Not reported

ROCKWOOD PARK (Continued) **1016356342**

Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Y
Controled substance found:	Y
Controled substance cleaned:	Y
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Y
PCBs found:	Y
PCBs cleaned up:	Y
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	0
Past use greenspace acreage:	.42
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	.42
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported

ROCKWOOD PARK (Continued) **1016356342**

Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Highlights:	Not reported
IC Data Address:	Not reported
Redev Completition Date:	05/09/2011 00:00:00
# Below Poverty:	9662
% Below Poverty:	2.6%
# Low Income:	17769
% Low Income:	1.4%
Meidan Income:	6426
# Unemployed:	1953
% Unemployed:	12.8%
# Vacant Housing:	447
% Vacant Housing:	55.7%

Recipient name:	California Department of Toxic Substances Control
Grant type:	BCRLF
Property name:	ROCKWOOD PARK
Property #:	5159015900-903
Parcel size:	.42
Property Description:	During the early 20th century this half-acre site was part of a large oil field. Redevelopment of the site was complicated because of the need to negotiate purchase prices with three separate owners. They City must pay fair market value, so this process was lengthy. Also, challenge was the steeo topography and odd shape making excavations and grading a bit of a challenge.
Latitude:	34.064135
Longitude:	-118.26173699999998
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	119841
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	229056
Redev. funding source:	Local Funding

ROCKWOOD PARK (Continued) **1016356342**

Redev. funding entity name:	Prop 40 per Capita
Redevelopment start date:	03/01/2011 00:00:00
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	Hazardous & Petroleum
Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	96987501
Ownership entity:	Government
Current owner:	City of Los Angeles
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	09/30/2009 00:00:00
State/tribal program ID:	Not reported
State/tribal NFA date:	02/23/2011 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Y
Controled substance found:	Y
Controled substance cleaned:	Y
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Y
PCBs found:	Y
PCBs cleaned up:	Y
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported

ROCKWOOD PARK (Continued) **1016356342**

Num. of cleanup and re-dev. jobs:	0
Past use greenspace acreage:	.42
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	.42
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Highlights:	Not reported
IC Data Address:	Not reported
Redev Completition Date:	05/09/2011 00:00:00
# Below Poverty:	9662
% Below Poverty:	2.6%
# Low Income:	17769
% Low Income:	1.4%
Meidan Income:	6426
# Unemployed:	1953
% Unemployed:	12.8%
# Vacant Housing:	447
% Vacant Housing:	55.7%
Recipient name:	Los Angeles, City of
Grant type:	Cleanup

ROCKWOOD PARK (Continued) **1016356342**

Property name:	ROCKWOOD PARK
Property #:	5159015900-903
Parcel size:	.42
Property Description:	During the early 20th century this half-acre site was part of a large oil field. Redevelopment of the site was complicated because of the need to negotiate purchase prices with three separate owners. They City must pay fair market value, so this process was lengthy. Also, challenge was the steeo topography and odd shape making excavations and grading a bit of a challenge.
Latitude:	34.064135
Longitude:	-118.26173699999998
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	119841
Start date:	09/14/2009 00:00:00
Completed date:	09/30/2009 00:00:00
Acres cleaned up:	.03
Cleanup funding:	190640
Cleanup funding source:	US EPA - Brownfields Cleanup Cooperative Agreement
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	Not reported
Cleanup funding entity:	EPA
Grant type:	Hazardous & Petroleum
Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	96991501
Ownership entity:	Government
Current owner:	City of Los Angeles
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	09/30/2009 00:00:00
State/tribal program ID:	Not reported
State/tribal NFA date:	02/23/2011 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Y
Controled substance found:	Y
Controled substance cleaned:	Y
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported

ROCKWOOD PARK (Continued) **1016356342**

Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Y
PCBs found:	Y
PCBs cleaned up:	Y
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	.42
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	.42
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported

ROCKWOOD PARK (Continued) **1016356342**

Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Highlights:	Not reported
IC Data Address:	Not reported
Redev Completition Date:	Not reported
# Below Poverty:	9662
% Below Poverty:	2.6%
# Low Income:	17769
% Low Income:	1.4%
Meidan Income:	6426
# Unemployed:	1953
% Unemployed:	12.8%
# Vacant Housing:	447
% Vacant Housing:	55.7%

Recipient name:	California Department of Toxic Substances Control
Grant type:	BCRLF
Property name:	ROCKWOOD PARK
Property #:	5159015900-903
Parcel size:	.42
Property Description:	During the early 20th century this half-acre site was part of a large oil field. Redevelopment of the site was complicated because of the need to negotiate purchase prices with three separate owners. They City must pay fair market value, so this process was lengthy. Also, challenge was the steeo topography and odd shape making excavations and grading a bit of a challenge.
Latitude:	34.064135
Longitude:	-118.26173699999998
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	119841
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	956000
Redev. funding source:	State/Tribal Funding (non-section 128(a))
Redev. funding entity name:	State of CA Prop 12
Redevelopment start date:	03/01/2011 00:00:00
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	Hazardous & Petroleum
Accomplishment type:	Not reported
Accomplishment count:	0

ROCKWOOD PARK (Continued) **1016356342**

Cooperative agreement #:	96987501
Ownership entity:	Government
Current owner:	City of Los Angeles
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	No
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	09/30/2009 00:00:00
State/tribal program ID:	Not reported
State/tribal NFA date:	02/23/2011 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Y
Controled substance found:	Y
Controled substance cleaned:	Y
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Y
PCBs found:	Y
PCBs cleaned up:	Y
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	0
Past use greenspace acreage:	.42
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	.42
Future use residential acreage:	Not reported

ROCKWOOD PARK (Continued) **1016356342**

Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Highlights:	Not reported
IC Data Address:	Not reported
Redev Completition Date:	05/09/2011 00:00:00
# Below Poverty:	9662
% Below Poverty:	2.6%
# Low Income:	17769
% Low Income:	1.4%
Meidan Income:	6426
# Unemployed:	1953
% Unemployed:	12.8%
# Vacant Housing:	447
% Vacant Housing:	55.7%

FINDS:

Registry ID: 110042112175

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

ROCKWOOD PARK (Continued) **1016356342**

Click this hyperlink while viewing on your computer to access
1 additional FINDS: record(s) in the EDR Site Report.

P63 **TOSCO - 76 STATION #0122** **LUST** **S104406270**
SSW **1031 002ND ST W** **HIST CORTESE** **N/A**
1/4-1/2 **LOS ANGELES, CA 90012**
0.453 mi.
2393 ft. **Site 3 of 5 in cluster P**

Relative:
Lower

Actual:
322 ft.

LUST:

Region:	STATE
Global Id:	T0603700503
Latitude:	34.0576837
Longitude:	-118.2548235
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/30/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900120043
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700503
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603700503
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603700503
Status:	Completed - Case Closed
Status Date:	07/30/1996

Global Id:	T0603700503
Status:	Open - Case Begin Date
Status Date:	10/24/1986

TOSCO - 76 STATION #0122 (Continued) **S104406270**

Global Id: T0603700503
Status: Open - Site Assessment
Status Date: 11/23/1993

Global Id: T0603700503
Status: Open - Verification Monitoring
Status Date: 01/07/1988

Regulatory Activities:
Global Id: T0603700503
Action Type: Other
Date: 11/15/1993
Action: Leak Discovery

Global Id: T0603700503
Action Type: Other
Date: 10/24/1986
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 900120043
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Remove Free Product
Global ID: T0603700503
W Global ID: W0607701254
Staff: UNK
Local Agency: 19050
Cross Street: BEAUDRY
Enforcement Type: Not reported
Date Leak Discovered: 11/15/1993
Date Leak First Reported: 10/24/1986
Date Leak Record Entered: 9/9/1987
Date Confirmation Began: 11/23/1993
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 6/24/1999
Date the Case was Closed: 7/30/1996
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: UNOCAL - JIM SCOTT
Well Name: Not reported
Approx. Dist To Production Well (ft): 3134.282370091978669589807 5162
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported

TOSCO - 76 STATION #0122 (Continued) **S104406270**

Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	1/7/1988
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	0
Significant Interim Remedial Action Taken:	Yes
GW Qualifier:	Not reported
Soil Qualifier:	ND
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	UNOCAL CORP
RP Address:	376 S VALENCIA AVE, RM F-107, BREA CA 92621
Program:	LUST
Lat/Long:	34.0576837 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3901254-001GEN
Summary:	FREE PRODUCT REMOVED BY BOILING. MONITORING PROGRAM IN PROGRESS. 11/19/98 - SOIL SAMPLING RPT FOR TANK TOP UPGRADE & PRODUCT LINE AND DISPENSER REPLACEMENT

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	900120043

P64 **76 STATION #0122 (FORMER)** **LUST** **S107138370**
South **1031 2ND ST. W.** **N/A**
1/4-1/2 **LOS ANGELES, CA 90012**
0.459 mi.
2425 ft. **Site 4 of 5 in cluster P**

Relative:
Lower

Actual:
322 ft.

LUST:

Region:	STATE
Global Id:	T0603755746
Latitude:	34.058007
Longitude:	-118.254863
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/12/2015
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	CET
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900120043A
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

76 STATION #0122 (FORMER) (Continued) **S107138370**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603755746
Contact Type:	Regional Board Caseworker
Contact Name:	CHANDRA TYLER
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	cetyler@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0603755746
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Status History:

Global Id:	T0603755746
Status:	Completed - Case Closed
Status Date:	10/12/2015

Global Id:	T0603755746
Status:	Open - Case Begin Date
Status Date:	10/20/2004

Global Id:	T0603755746
Status:	Open - Eligible for Closure
Status Date:	03/09/2015

Global Id:	T0603755746
Status:	Open - Remediation
Status Date:	12/28/2009

Global Id:	T0603755746
Status:	Open - Site Assessment
Status Date:	10/20/2004

Global Id:	T0603755746
Status:	Open - Site Assessment
Status Date:	11/02/2006

Regulatory Activities:

Global Id:	T0603755746
Action Type:	RESPONSE
Date:	07/15/2008
Action:	Monitoring Report - Quarterly

Global Id:	T0603755746
Action Type:	RESPONSE
Date:	02/17/2010
Action:	Pilot Study/ Treatability Report

76 STATION #0122 (FORMER) (Continued) **S107138370**

Global Id: T0603755746
Action Type: RESPONSE
Date: 01/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603755746
Action Type: RESPONSE
Date: 07/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603755746
Action Type: ENFORCEMENT
Date: 05/17/2013
Action: Staff Letter

Global Id: T0603755746
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603755746
Action Type: RESPONSE
Date: 09/14/2009
Action: CAP/RAP - Feasibility Study Report

Global Id: T0603755746
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603755746
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603755746
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603755746
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603755746
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603755746
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603755746
Action Type: RESPONSE

76 STATION #0122 (FORMER) (Continued) **S107138370**

Date: 04/13/2007
Action: Interim Remedial Action Plan

Global Id: T0603755746
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603755746
Action Type: RESPONSE
Date: 09/09/2015
Action: Well Destruction Report

Global Id: T0603755746
Action Type: ENFORCEMENT
Date: 03/09/2015
Action: Notification - Preclosure

Global Id: T0603755746
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603755746
Action Type: ENFORCEMENT
Date: 03/05/2009
Action: Staff Letter

Global Id: T0603755746
Action Type: RESPONSE
Date: 05/11/2009
Action: Soil and Water Investigation Report

Global Id: T0603755746
Action Type: RESPONSE
Date: 08/17/2009
Action: Remedial Progress Report

Global Id: T0603755746
Action Type: RESPONSE
Date: 11/02/2006
Action: Preliminary Site Assessment Report

Global Id: T0603755746
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603755746
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603755746
Action Type: ENFORCEMENT
Date: 07/08/2013
Action: Staff Letter

76 STATION #0122 (FORMER) (Continued) **S107138370**

Global Id:	T0603755746
Action Type:	RESPONSE
Date:	10/15/2007
Action:	Monitoring Report - Quarterly
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	07/15/2010
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	07/15/2012
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603755746
Action Type:	ENFORCEMENT
Date:	03/05/2009
Action:	Verbal Enforcement
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	07/15/2009
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	01/20/2009
Action:	Soil and Water Investigation Workplan
Global Id:	T0603755746
Action Type:	ENFORCEMENT
Date:	06/06/2006
Action:	Staff Letter
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	07/15/2011
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	01/15/2013
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	03/27/2013
Action:	Request for Closure - Regulator Responded
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	06/14/2013
Action:	Soil Vapor Intrusion Investigation Workplan - Regulator Responded
Global Id:	T0603755746
Action Type:	ENFORCEMENT

76 STATION #0122 (FORMER) (Continued) **S107138370**

Date:	10/12/2015
Action:	Closure/No Further Action Letter
Global Id:	T0603755746
Action Type:	Other
Date:	10/20/2004
Action:	Leak Reported
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	07/15/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	01/15/2007
Action:	Monitoring Report - Quarterly
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	08/05/2006
Action:	Other Report / Document
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	01/15/2008
Action:	CAP/RAP - Feasibility Study Report
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	01/15/2014
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	12/18/2013
Action:	Site Assessment Report
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	01/22/2015
Action:	Other Workplan - Regulator Responded
Global Id:	T0603755746
Action Type:	Other
Date:	10/20/2004
Action:	Leak Discovery
Global Id:	T0603755746
Action Type:	ENFORCEMENT
Date:	04/29/2015
Action:	Meeting
Global Id:	T0603755746
Action Type:	RESPONSE
Date:	11/21/2008
Action:	Pilot Study/ Treatability Report

76 STATION #0122 (FORMER) (Continued) **S107138370**

Global Id:	T0603755746
Action Type:	RESPONSE
Date:	01/15/2008
Action:	Other Report / Document
Global Id:	T0603755746
Action Type:	REMEDIATION
Date:	09/09/1998
Action:	Excavation
Global Id:	T0603755746
Action Type:	REMEDIATION
Date:	12/08/2003
Action:	Excavation
Global Id:	T0603755746
Action Type:	REMEDIATION
Date:	12/18/2009
Action:	Dual Phase Extraction
Global Id:	T0603755746
Action Type:	REMEDIATION
Date:	01/29/2009
Action:	Pump & Treat (P&T) Groundwater
Global Id:	T0603755746
Action Type:	REMEDIATION
Date:	12/29/2009
Action:	Pump & Treat (P&T) Groundwater
Global Id:	T0603755746
Action Type:	REMEDIATION
Date:	01/20/2009
Action:	Dual Phase Extraction

Q65 **A QUALITY AUTO SERVICE INC.** **SWEEPS UST** **S101583129**
NNE **1301 W SUNSET BLVD** **CA FID UST** **N/A**
1/4-1/2 **LOS ANGELES, CA 90026** **EMI**
0.467 mi. **HIST CORTESE**
2465 ft. **Site 1 of 2 in cluster Q**

Relative:
Higher

Actual:
442 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	7498
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported

A QUALITY AUTO SERVICE INC. (Continued) **S101583129**

Number Of Tanks: 0

CA FID UST:
Facility ID: 19002748
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2130000000
Mail To: Not reported
Mailing Address: 1301 W SUNSET BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS ANGELES 900260000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

EMI:
Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 76892
Air District Name: SC
SIC Code: 2821
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2
Reactive Organic Gases Tons/Yr: 2
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 900260189

Q66 **DONALD COZEN** **LUST** **S105051339**
NNE **1301 SUNSET BLVD W** **N/A**
1/4-1/2 **ECHO PARK, CA 90026**
0.467 mi.
2465 ft. **Site 2 of 2 in cluster Q**

Relative:
Higher

Actual:
442 ft.

LUST:
Region: STATE
Global Id: T0603700721
Latitude: 34.0713551
Longitude: -118.2504985

DONALD COZEN (Continued) **S105051339**

Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/16/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900260189
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700721
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603700721
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603700721
Status:	Completed - Case Closed
Status Date:	09/16/1996

Global Id:	T0603700721
Status:	Open - Case Begin Date
Status Date:	03/05/1990

Global Id:	T0603700721
Status:	Open - Site Assessment
Status Date:	03/05/1990

Regulatory Activities:

Global Id:	T0603700721
Action Type:	Other
Date:	03/05/1990
Action:	Leak Reported

LUST REG 4:

Region:	4

DONALD COZEN (Continued) **S105051339**

Regional Board:	04	
County:	Los Angeles	
Facility Id:	900260189	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603700721	
W Global ID:	W0605100649	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		3/5/1990
Date Leak Record Entered:	11/7/1990	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		9/24/1990
Date the Case was Closed:		9/16/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	A QUALITY AUTO BODY	
Water System:	DAVE GRIFFITH L A D W P	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		4663.91136369686442298320991 18
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		3/5/1990
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	BLANK RP	
RP Address:	10429 SUMMER HOLLY CIRCLE, LOS ANGELES CA 90077	
Program:	LUST	
Lat/Long:	34.0713551 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	2600649-001GEN	
Summary:	OLD CASE #110790-03	

R67 **UNOCAL #6339** **HIST CORTESE** **S101297282**
WNW **1604 TEMPLE** **N/A**
1/4-1/2 **LOS ANGELES, CA 90026**
0.475 mi.
2507 ft. **Site 1 of 2 in cluster R**

Relative:
Lower

Actual:
368 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	900260043

R68 **UNOCAL #6339** **LUST** **S104916124**
WNW **1604 TEMPLE ST W** **N/A**
1/4-1/2 **ECHO PARK, CA 90026**
0.475 mi.
2507 ft. **Site 2 of 2 in cluster R**

Relative:
Lower

Actual:
368 ft.

LUST:

Region:	STATE
Global Id:	T0603700709
Latitude:	34.0680322
Longitude:	-118.2610738
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/03/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900260043
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700709
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603700709
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603700709
Status:	Completed - Case Closed

UNOCAL #6339 (Continued) **S104916124**

Status Date: 09/03/1996

Global Id: T0603700709
Status: Open - Case Begin Date
Status Date: 04/02/1990

Global Id: T0603700709
Status: Open - Remediation
Status Date: 12/14/1994

Global Id: T0603700709
Status: Open - Site Assessment
Status Date: 04/03/1990

Global Id: T0603700709
Status: Open - Site Assessment
Status Date: 10/07/1990

Regulatory Activities:
Global Id: T0603700709
Action Type: Other
Date: 04/02/1990
Action: Leak Discovery

Global Id: T0603700709
Action Type: Other
Date: 04/02/1990
Action: Leak Stopped

Global Id: T0603700709
Action Type: Other
Date: 04/03/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 900260043
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: FPED
Global ID: T0603700709
W Global ID: W0603700547
Staff: UNK
Local Agency: 19050
Cross Street: GLENDALE
Enforcement Type: Not reported
Date Leak Discovered: 4/2/1990
Date Leak First Reported: 4/3/1990
Date Leak Record Entered: 12/4/1990
Date Confirmation Began: 4/3/1990

UNOCAL #6339 (Continued) **S104916124**

Date Leak Stopped:	4/2/1990	
Date Case Last Changed on Database:		4/30/1996
Date the Case was Closed:		9/3/1996
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	Corrosion	
Leak Source:	Piping	
Operator:	MARTIN, ANTONIO	
Water System:	FIRSTONE SCOUT RESRVTN (BOY SCOUT COUN)	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		3689.513667287008121582661205
Source of Cleanup Funding:		Piping
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		10/7/1990
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		12/14/1994
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	UNOCAL CORPORATION	
RP Address:	376 S. VALENCIA AVE., BREA CA 92621	
Program:	LUST	
Lat/Long:	34.0680322 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	1900547-001GEN	
Summary:	LEAK WAS SUSPECTED 3/30/90 & WAS VERIFIED BY AUDIT 4/2/90.	

P69 **CHEVRON #3-8619** **LUST** **S102427032**
SSW **1100 002ND ST W** **HIST CORTESE** **N/A**
1/4-1/2 **LOS ANGELES, CA 90012**
0.481 mi.
2541 ft. **Site 5 of 5 in cluster P**

Relative:
Lower

Actual:
375 ft.

LUST:

Region:	STATE
Global Id:	T0603700501
Latitude:	34.0577697
Longitude:	-118.2553715
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/07/1997
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900120025
LOC Case Number:	Not reported

CHEVRON #3-8619 (Continued) **S102427032**

File Location: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603700501
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603700501
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603700501
Status: Completed - Case Closed
Status Date: 01/07/1997

Global Id: T0603700501
Status: Open - Case Begin Date
Status Date: 11/14/1985

Global Id: T0603700501
Status: Open - Site Assessment
Status Date: 04/21/1988

Regulatory Activities:
Global Id: T0603700501
Action Type: Other
Date: 11/14/1985
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 900120025
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater

CHEVRON #3-8619 (Continued) **S102427032**

Abatement Method Used at the Site:		Not reported
Global ID:	T0603700501	
W Global ID:	W0607701254	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		11/14/1985
Date Leak Record Entered:	12/31/1986	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		4/8/1997
Date the Case was Closed:		1/7/1997
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	UNOCAL - JIM SCOTT	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		3029.094957140989152774299 8536
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		4/21/1988
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	CHEVRON PRODUCTS CO	
RP Address:	P.O. BOX 2833, LA HABRA CA 90632-2833	
Program:	LUST	
Lat/Long:	34.0577697 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	3901254-001GEN	
Summary:	SITE INSPECTION MADE DURING TANK REMOVAL DID NOT REVEAL CONTAMINATION. 04/08/97 - WELL ABAONDONMENT REPORT	

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA

CHEVRON #3-8619 (Continued) **S102427032**

Reg Id: 900120025

S70 **SOUTH REGION ELEMENTARY SCHOOL #7, SITE 2** **ENVIROSTOR** **S108054414**
SSW **EAST 89TH STREET/EAST 90TH STREET/COMPTON AVENUE** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90002**
0.606 mi.
3201 ft. **Site 1 of 2 in cluster S**

Relative: Lower

Actual: 384 ft.

ENVIROSTOR:

Facility ID:	60000393
Status:	Certified
Status Date:	08/13/2008
Site Code:	304533
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	5.08
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Amit Pathak
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	24
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.05630
Longitude:	-118.2573
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic Benzene Chlordane Lead Mercury (elemental TPH-diesel TPH-gas TPH-JET FUEL TPH-MOTOR OIL 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride Benzo[a]pyrene
Confirmed COC:	30001-NO 30003-NO Chlordane Lead 30014-NO 30024-NO 30025-NO 30026-NO 3002501-NO 3002502-NO Benzo[a]pyrene 30028-NO 30027-NO
Potential Description:	SOIL
Alias Name:	Los Angeles Unified School District
Alias Type:	Alternate Name
Alias Name:	110033616736
Alias Type:	EPA (FRS #)
Alias Name:	304533
Alias Type:	Project Code (Site Code)
Alias Name:	60000393
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	09/18/2006
Comments:	Field Work for PEA Started 9/19/06
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/22/2007

SOUTH REGION ELEMENTARY SCHOOL #7, SITE 2 (Continued) **S108054414**

Comments:	DTSC determined based on the Preliminary Environmental Assessment that "Further Action" is required to address TPH, Lead and OCPs detected onsite
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	12/26/2007
Comments:	DTSC approved the Removal Action Workplan for implementation
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	06/30/2008
Comments:	DTSC approved the Removal Action Completion Report with a No Further Action determination
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	01/10/2008
Comments:	Approved
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	01/10/2008
Comments:	Completed
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/30/2008
Comments:	DTSC Completed ESD to explain variances from the approved RAW
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	01/08/2008
Comments:	NOE was faxed to OPR. According to OPR NOE is considered filed as of 1/8/2008.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	08/13/2008
Comments:	DTSC certified that response action according to the DTSC-approved RAW is complete.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	08/13/2008
Comments:	DTSC prepared project close out Cost Recovery Unit Memorandum.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported

SOUTH REGION ELEMENTARY SCHOOL #7, SITE 2 (Continued) **S108054414**

Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	60000393
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	5.08
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Amit Pathak
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304533
Assembly:	53
Senate:	24
Special Program Status:	Voluntary Cleanup Program
Status:	Certified
Status Date:	08/13/2008
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	34.05630
Longitude:	-118.2573
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic, Benzene, Chlordane, Lead, Mercury (elemental, TPH-diesel, TPH-gas, TPH-JET FUEL, TPH-MOTOR OIL, 1,1,1-Trichloroethane (TCA, Trichloroethylene (TCE, Vinyl chloride, Benzo[a]pyrene
Confirmed COC:	30001-NO, 30003-NO, Chlordane, Lead, 30014-NO, 30024-NO, 30025-NO, 30026-NO, 3002501-NO, 3002502-NO, Benzo[a]pyrene, 30028-NO, 30027-NO
Potential Description:	SOIL
Alias Name:	Los Angeles Unified School District
Alias Type:	Alternate Name
Alias Name:	110033616736
Alias Type:	EPA (FRS #)
Alias Name:	304533
Alias Type:	Project Code (Site Code)
Alias Name:	60000393
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	09/18/2006
Comments:	Field Work for PEA Started 9/19/06
Completed Area Name:	PROJECT WIDE

SOUTH REGION ELEMENTARY SCHOOL #7, SITE 2 (Continued) **S108054414**

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/22/2007
Comments: DTSC determined based on the Preliminary Environmental Assessment that "Further Action" is required to address TPH, Lead and OCPs detected onsite

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 12/26/2007
Comments: DTSC approved the Removal Action Workplan for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/30/2008
Comments: DTSC approved the Removal Action Completion Report with a No Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/10/2008
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 01/10/2008
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/30/2008
Comments: DTSC Completed ESD to explain variances from the approved RAW

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 01/08/2008
Comments: NOE was faxed to OPR. According to OPR NOE is considered filed as of 1/8/2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/13/2008
Comments: DTSC certified that response action according to the DTSC-approved RAW is complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 08/13/2008
Comments: DTSC prepared project close out Cost Recovery Unit Memorandum.

SOUTH REGION ELEMENTARY SCHOOL #7, SITE 2 (Continued) **S108054414**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

S71 **CENTRAL REGION HIGH SCHOOL #16, SITE3A** **ENVIROSTOR** **S108054481**
SSW **EAST 52ND STREET/SAN PEDRO STREET AND TOWNE AVENUE/EAST 54TH** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90011**
0.606 mi.
3201 ft. **Site 2 of 2 in cluster S**

Relative:
Lower

Actual:
384 ft.

ENVIROSTOR:

Facility ID:	60000392
Status:	Certified
Status Date:	10/26/2010
Site Code:	304535
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	13.24
NPL:	NO
Regulatory Agencies:	SMBRP, ORANGE COUNTY
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	24
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.05630
Longitude:	-118.2573
APN:	5101-001-900
Past Use:	RESIDENTIAL AREA, RETAIL, RETAIL - VEHICLES, SCHOOL - OTHER, TRANSPORTATION - WAREHOUSING
Potential COC:	Benzene Chlordane DDD DDE DDT Endrin Lead Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE Toxaphene TPH-diesel TPH-gas TPH-MOTOR OIL Trichloroethylene (TCE Dieldrin Heptachlor Heptachlor epoxide
Confirmed COC:	30003-NO Chlordane 30207-NO 30019-NO Tetrachloroethylene (PCE 30024-NO 30025-NO Heptachlor epoxide 3002502-NO 30023-NO 30027-NO Heptachlor Lead DDD DDE DDT 30010-NO
Potential Description:	SOIL, SV
Alias Name:	Los Angeles Unified School District
Alias Type:	Alternate Name
Alias Name:	5101-001-900
Alias Type:	APN
Alias Name:	110033619412
Alias Type:	EPA (FRS #)
Alias Name:	304535
Alias Type:	Project Code (Site Code)
Alias Name:	60000392

CENTRAL REGION HIGH SCHOOL #16, SITE3A (Continued) **S108054481**

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/18/2006
Comments: DTSC concurs with Scoping Document. Sampling scheduled to begin 8/21/2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/21/2007
Comments: DTSC issues FA determination for VOCs and metals. Methane and CrVI not properly characterized.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/07/2008
Comments: DTSC determined that Further Action is required based on the Supplemental Site Investigation report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/11/2008
Comments: DTSC approved the Remedial Action plan for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 07/02/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 10/16/2008
Comments: DTSC approved the Remedial Design Document for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 02/26/2009
Comments: DTSC approved the Remedial Action Completion Report for Areas C and D. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/01/2006
Comments: Phase I submitted for background information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report

CENTRAL REGION HIGH SCHOOL #16, SITE3A (Continued) **S108054481**

Completed Date: 08/12/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/28/2010
Comments: DTSC concurs with the recommendation of No Further Action for the Area B RACR. The entire site has now been investigated/remediated.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/18/2010
Comments: DTSC certified that response action according to the DTSC-approved RAW is complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 08/11/2008
Comments: Initial Study/Negative Declaration and Notice of Determination completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 07/23/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/18/2010
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 60000392
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 13.24
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, ORANGE COUNTY
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program

CENTRAL REGION HIGH SCHOOL #16, SITE3A (Continued) **S108054481**

Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304535
Assembly:	53
Senate:	24
Special Program Status:	Not reported
Status:	Certified
Status Date:	10/26/2010
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	34.05630
Longitude:	-118.2573
APN:	5101-001-900
Past Use:	RESIDENTIAL AREA, RETAIL, RETAIL - VEHICLES, SCHOOL - OTHER, TRANSPORTATION - WAREHOUSING
Potential COC:	Benzene, Chlordane, DDD, DDE, DDT, Endrin, Lead, Polynuclear aromatic hydrocarbons (PAHs, Tetrachloroethylene (PCE, Toxaphene, TPH-diesel, TPH-gas, TPH-MOTOR OIL, Trichloroethylene (TCE, Dieldrin, Heptachlor, Heptachlor epoxide
Confirmed COC:	30003-NO, Chlordane, 30207-NO, 30019-NO, Tetrachloroethylene (PCE, 30024-NO, 30025-NO, Heptachlor epoxide, 3002502-NO, 30023-NO, 30027-NO, Heptachlor, Lead, DDD, DDE, DDT, 30010-NO
Potential Description:	SOIL, SV
Alias Name:	Los Angeles Unified School District
Alias Type:	Alternate Name
Alias Name:	5101-001-900
Alias Type:	APN
Alias Name:	110033619412
Alias Type:	EPA (FRS #)
Alias Name:	304535
Alias Type:	Project Code (Site Code)
Alias Name:	60000392
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	08/18/2006
Comments:	DTSC concurs with Scoping Document. Sampling scheduled to begin 8/21/2006.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	05/21/2007
Comments:	DTSC issues FA determination for VOCs and metals. Methane and CrVI not properly characterized.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	01/07/2008
Comments:	DTSC determined that Further Action is required based on the Supplemental Site Investigation report
Completed Area Name:	PROJECT WIDE

CENTRAL REGION HIGH SCHOOL #16, SITE3A (Continued) **S108054481**

Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 08/11/2008
Comments: DTSC approved the Remedial Action plan for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 07/02/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 10/16/2008
Comments: DTSC approved the Remedial Design Document for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 02/26/2009
Comments: DTSC approved the Remedial Action Completion Report for Areas C and D.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/01/2006
Comments: Phase I submitted for background information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 08/12/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/28/2010
Comments: DTSC concurs with the recommendation of No Further Action for the Area B RACR. The entire site has now been investigated/remediated.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/18/2010
Comments: DTSC certified that response action according to the DTSC-approved RAW is complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 08/11/2008
Comments: Initial Study/Negative Declaration and Notice of Determination completed.

CENTRAL REGION HIGH SCHOOL #16, SITE3A (Continued) **S108054481**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	School Cleanup Agreement
Completed Date:	07/23/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	10/18/2010
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

72
SW
1/2-1
0.630 mi.
3326 ft.

CENTRAL LOS ANGELES HIGH SCHOOL NO. 10 **ENVIROSTOR** **S118756526**
350 S. BIXEL STREET **SCH** **N/A**
LOS ANGELES, CA 90017

Relative:
Lower

Actual:
423 ft.

ENVIROSTOR:

Facility ID:	19390061
Status:	No Action Required
Status Date:	05/20/2001
Site Code:	304282
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	24
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.05695
Longitude:	-118.2597
APN:	5152014038
Past Use:	MANUFACTURING - OTHER
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	CENTRAL LOS ANGELES HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	LAUSD-CENTRAL LA HS #10 AKA:CHMBR OF COM

CENTRAL LOS ANGELES HIGH SCHOOL NO. 10 (Continued) **S118756526**

Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	5152014038
Alias Type:	APN
Alias Name:	304282
Alias Type:	Project Code (Site Code)
Alias Name:	19390061
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19390061
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	Not reported
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304282
Assembly:	53
Senate:	24
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	05/20/2001
Restricted Use:	NO
Funding:	School District
Latitude:	34.05695
Longitude:	-118.2597
APN:	5152014038
Past Use:	MANUFACTURING - OTHER
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	CENTRAL LOS ANGELES HIGH SCHOOL

CENTRAL LOS ANGELES HIGH SCHOOL NO. 10 (Continued) **S118756526**

Alias Type:	Alternate Name
Alias Name:	LAUSD-CENTRAL LA HS #10 AKA:CHMBR OF COM
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	5152014038
Alias Type:	APN
Alias Name:	304282
Alias Type:	Project Code (Site Code)
Alias Name:	19390061
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

73
West
1/2-1
0.659 mi.
3478 ft.

IGLESIA NI CRISTO **ENVIROSTOR** **S109548376**
141 NORTH UNION AVENUE **VCP** **N/A**
LOS ANGELES, CA 90026

Relative:
Lower

Actual:
415 ft.

ENVIROSTOR:

Facility ID:	60001080
Status:	No Further Action
Status Date:	10/08/2009
Site Code:	301416
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Rita Kamat
Division Branch:	Cleanup Chatsworth
Assembly:	51
Senate:	24
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.06532
Longitude:	-118.2655
APN:	5159-008-025

IGLESIA NI CRISTO (Continued) **S109548376**

Past Use: NONE
Potential COC: Lead
Confirmed COC: Lead
Potential Description: SOIL
Alias Name: 5159-008-025
Alias Type: APN
Alias Name: 301416
Alias Type: Project Code (Site Code)
Alias Name: 60001080
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/29/2009
Comments: Complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/05/2009
Comments: NFA letter sent. CRU memo sent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/15/2009
Comments: NFA letter issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 10/08/2009
Comments: NFA Issued. VCA Scope of work completed. CRU memo sent.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 60001080
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported

IGLESIA NI CRISTO (Continued) **S109548376**

Supervisor:	Rita Kamat
Division Branch:	Cleanup Chatsworth
Site Code:	301416
Assembly:	51
Senate:	24
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	10/08/2009
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.06532 / -118.2655
APN:	5159-008-025
Past Use:	NONE
Potential COC:	30013
Confirmed COC:	30013
Potential Description:	SOIL
Alias Name:	5159-008-025
Alias Type:	APN
Alias Name:	301416
Alias Type:	Project Code (Site Code)
Alias Name:	60001080
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	07/29/2009
Comments:	Complete
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	10/05/2009
Comments:	NFA letter sent. CRU memo sent.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	09/15/2009
Comments:	NFA letter issued.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement Termination Notification
Completed Date:	10/08/2009
Comments:	NFA Issued. VCA Scope of work completed. CRU memo sent.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

T74 **US MARINE CORPS RESERVE CENTER** **LUST** **S101584386**
ENE **1700 STADIUM WAY** **HIST Cal-Sites** **N/A**
1/2-1 **LOS ANGELES, CA 90012** **SWEEPS UST**
0.661 mi. **CA FID UST**
3492 ft. **Site 1 of 2 in cluster T**

Relative:
Lower

Actual:
385 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	1033	
Status:	Not reported	
Substance:	Not reported	
Substance Quantity:	Not reported	
Local Case No:	300784	
Case Type:	Not reported	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603714859	
W Global ID:	Not reported	
Staff:	GJH	
Local Agency:	Not reported	
Cross Street:	Not reported	
Enforcement Type:	None Taken	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		Not reported
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		Not reported
Date the Case was Closed:		Not reported
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		Not reported
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	Monica Ryan	
RP Address:	Not reported	
Program:	DOD	
Lat/Long:	Not reported	
Local Agency Staff:	Not reported	

US MARINE CORPS RESERVE CENTER (Continued) **S101584386**

Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

Calsite:
Region: GLENDALE
Facility ID: 19970021
Facility Type: CLOSE
Type: CLOSED MILITARY BASE
Branch: SO
Branch Name: OMF-SOUTHERN CALIF
File Name: LOS ANGELES NAVAL & MARINE CORPS RES.CEN
State Senate District: 11231999
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 97
SIC Name: NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: APEDDADA
Supervisor Responsible for Site: Not reported
Region Water Control Board: LA
Region Water Control Board Name: LOS ANGELES
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 45
State Senate District Code: 21
Facility ID: 19970021
Activity: RAP
Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code: STE1
Proposed Budget: 0
AWP Completion Date: 01312007
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported

US MARINE CORPS RESERVE CENTER (Continued) **S101584386**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970021
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	STE1
Proposed Budget:	0
AWP Completion Date:	08312004
Revised Due Date:	Not reported
Comments Date:	01182005
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970021
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	STE1
Proposed Budget:	0
AWP Completion Date:	01312008
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	1700 STADIUM WAY
Alternate City,St,Zip:	LOS ANGELES, CA 90012
Background Info:	The Naval and Marine Corps Reserve Center, Los Angeles (NMCRC-LA) consists of approximately 6 acres of land, approximately 1 mile northeast of downtown Los Angeles. This site is a closed reserve

US MARINE CORPS RESERVE CENTER (Continued) **S101584386**

center where Naval or Marine Corps activities are no longer cond
ucted. NMCRC-LA was constructed from 1938 to 1940 by the Works
Progress Administration and was commissioned in 1940 to provide a
dministrative, training, and logistics support to reserve units.
The facility has one Installation Restoration site, identified
as Site 1, the former Service Station and Vehicle Lube Rack. The
former service Station was built in 1943 and was used for fuelin
g vehicles on site. The aboveground portion of the station has be
en removed. Adjacent to the former Service Station, the Vehicle L
ube Rack was used for vehicle maintenance and drained directly to
a waste of oil underground storage tank(UST). Between 1987 to 19
89, hazardous substances (including used oil, solvents, hydraulic
, fluid, and other new and used vehicle maintenance products) wer
e stored in 55-gallon drums on the Vehicl Lube Rack. In Novembe
r 1994, the waste oil UST was removed in 1994 under supervision o
f the Los Angeles Fire Department. Soil with detected levels of
total recoverable petroleum hydrocarbons was excavated and dispos
ed off site. In 1995, an Environmental Baseline Study (EBS) was
conducted. The EBS identified the Vehicle Lube Rack and the form
er Service Station gasoline UST as areas requiring further invest
igation. In 1996, a subsurface soil investigation conducted for
Site 1 indicated the presence of gasoline-range hydrocarbons, be
nzene, toluene, ethylbenzene, total xylenes, and 1,2-dichloroetha
ne.

Comments Date: 01182005
Comments: The SI included Geophysical survey; soil sampling and analysis; g
Comments Date: 01182005
Comments: roundwater sampling and analysis; assessing the nature and extent
Comments Date: 01182005
Comments: of contamination; assessing the fate and transport of contaminan
Comments Date: 01182005
Comments: ts and assessing potential risk to human health. Based on the re
Comments Date: 01182005
Comments: sults, it is recommended that the site no longer considered a CE
Comments Date: 01182005
Comments: RCLA IR site, and should fall under State of California UST progr
Comments Date: 01182005
Comments: am. DTSC concurs with this recommendation.
ID Name: Not reported
ID Value: Not reported
Alternate Name: LOS ANGELES NAVAL/MARINE C. RESERVE CNTR
Alternate Name: LOS ANGELES NAVAL/MARINE RESERVE CENTER
Alternate Name: LOS ANGELES NAVAL & MARINE CORPS RES.CEN
Alternate Name: Not reported
Special Programs Code: DSMOA
Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

SWEEPS UST:
Status: Active
Comp Number: 4071
Number: 7
Board Of Equalization: Not reported
Referral Date: 09-21-93
Action Date: 09-21-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported

US MARINE CORPS RESERVE CENTER (Continued) **S101584386**

Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19010990
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2130000000
Mail To: Not reported
Mailing Address: 1700 STADIUM WAY
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS ANGELES 900120000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

T75 **LOS ANGELES NAVAL & MARINE CORPS RES.CEN** **RESPONSE** **S102815066**
ENE **1700 STADIUM WAY** **ENVIROSTOR** **N/A**
1/2-1 **LOS ANGELES, CA 90012** **SLIC**
0.661 mi. **DEED**
3492 ft. **Site 2 of 2 in cluster T** **MCS**
HAZNET
Relative: **HIST CORTESE**
Lower

Actual: RESPONSE:
385 ft. Facility ID: 19970021
Site Type: State Response
Site Type Detail: Closed Base
Acres: 6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, RWQCB 4 - Los Angeles
Lead Agency Description: RWQCB 4 - Los Angeles
Project Manager: Anantaramam Peddada
Supervisor: Robert Senga
Division Branch: Cleanup Cypress
Site Code: 300784
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 51
Senate: 24
Special Program Status: Navy
Status: Active
Status Date: 11/23/1999
Restricted Use: NO
Funding: * Defense Environmental Restoration Program (DERP)
Latitude: 34.06903
Longitude: -118.2421

LOS ANGELES NAVAL & MARINE CORPS RES.CEN (Continued) **S102815066**

APN:	NONE SPECIFIED
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING
Potential COC :	* Asbestos and Naturally Occurring Asbestos (NOA Lead TPH-diesel TPH-gas
Confirmed COC:	Lead TPH-diesel TPH-gas
Potential Description:	OTH, SOIL
Alias Name:	LOS ANGELES NAVAL & MARINE CORPS RES.CEN
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES NAVAL/MARINE C. RESERVE CNTR
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES NAVAL/MARINE RESERVE CENTER
Alias Type:	Alternate Name
Alias Name:	110033608120
Alias Type:	EPA (FRS #)
Alias Name:	T0603714859
Alias Type:	GeoTracker Global ID
Alias Name:	300784
Alias Type:	Project Code (Site Code)
Alias Name:	19970021
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	01/18/2005
Comments:	The SI included Geophysical survey; soil sampling and analysis; groundwater sampling and analysis; assessing the nature and extent of contamination; assessing the fate and transport of contaminants and assessing potential risk to human health. Based on the results, it is recommended that the site no longer considered a CERCLA IR site, and should fall under State of California UST program. DTSC concurs with this recommendation.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Soil Vapor Extraction Monitoring Plan
Completed Date:	08/12/2010
Comments:	Report is complete. Navy is doing the fieldwork

Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	1
Completed Document Type:	Soil Vapor Extraction Monitoring Report
Completed Date:	07/05/2011
Comments:	Document complete

Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	1
Completed Document Type:	Monitoring Plan
Completed Date:	05/31/2012
Comments:	Completed

Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	1
Completed Document Type:	Monitoring Report
Completed Date:	03/22/2013
Comments:	NO official letter is required. Water Board is in charge.

LOS ANGELES NAVAL & MARINE CORPS RES.CEN (Continued) **S102815066**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 12/20/2013
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 12/15/2014
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 02/25/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/03/2015
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Monitoring Plan
Completed Date: 12/16/2014
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 09/22/2015
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 19970021
Status: Active
Status Date: 11/23/1999
Site Code: 300784
Site Type: State Response
Site Type Detailed: Closed Base
Acres: 6
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 4 - Los Angeles
Lead Agency: RWQCB 4 - Los Angeles

LOS ANGELES NAVAL & MARINE CORPS RES.CEN (Continued) **S102815066**

Program Manager: Anantaramam Peddada
Supervisor: Robert Senga
Division Branch: Cleanup Cypress
Assembly: 51
Senate: 24
Special Program: Navy
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: * Defense Environmental Restoration Program (DERP)
Latitude: 34.06903
Longitude: -118.2421
APN: NONE SPECIFIED
Past Use: FUEL - VEHICLE STORAGE/ REFUELING
Potential COC: * Asbestos and Naturally Occurring Asbestos (NOA Lead TPH-diesel TPH-gas
Confirmed COC: Lead TPH-diesel TPH-gas
Potential Description: OTH, SOIL
Alias Name: LOS ANGELES NAVAL & MARINE CORPS RES.CEN
Alias Type: Alternate Name
Alias Name: LOS ANGELES NAVAL/MARINE C. RESERVE CNTR
Alias Type: Alternate Name
Alias Name: LOS ANGELES NAVAL/MARINE RESERVE CENTER
Alias Type: Alternate Name
Alias Name: 110033608120
Alias Type: EPA (FRS #)
Alias Name: T0603714859
Alias Type: GeoTracker Global ID
Alias Name: 300784
Alias Type: Project Code (Site Code)
Alias Name: 19970021
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/18/2005
Comments: The SI included Geophysical survey; soil sampling and analysis; groundwater sampling and analysis; assessing the nature and extent of contamination; assessing the fate and transport of contaminants and assessing potential risk to human health. Based on the results, it is recommended that the site no longer considered a CERCLA IR site, and should fall under State of California UST program. DTSC concurs with this recommendation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soil Vapor Extraction Monitoring Plan
Completed Date: 08/12/2010
Comments: Report is complete. Navy is doing the fieldwork

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Soil Vapor Extraction Monitoring Report
Completed Date: 07/05/2011
Comments: Document complete

Completed Area Name: Sites With No Operable Unit

LOS ANGELES NAVAL & MARINE CORPS RES.CEN (Continued) **S102815066**

Completed Sub Area Name: 1
Completed Document Type: Monitoring Plan
Completed Date: 05/31/2012
Comments: Completed

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 03/22/2013
Comments: NO official letter is required. Water Board is in charge.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 12/20/2013
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 12/15/2014
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 02/25/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/03/2015
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Monitoring Plan
Completed Date: 12/16/2014
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 1
Completed Document Type: Monitoring Report
Completed Date: 09/22/2015
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LOS ANGELES NAVAL & MARINE CORPS RES.CEN (Continued) **S102815066**

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	05/04/1998
Global Id:	T0603700529
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.0687922
Longitude:	-118.2434812
Case Type:	Cleanup Program Site
Case Worker:	SLC
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900120334
File Location:	Not reported
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:

Region:	4
Facility Status:	Site Assessment
SLIC:	1033
Substance:	Not reported
Staff:	GJH

DEED:

Envirostor ID:	T0603714859
Area:	Not reported
Sub Area:	Not reported
Site Type:	DOD
Status:	OPEN - VERIFICATION MONITORING
Agency:	SWRCB
Covenant Uploaded:	Y
Deed Date(s):	05/08/2015

MCS:

Global Id:	T0603714859
Latitude:	34.06878
Longitude:	-118.2415
Case Type:	Military Cleanup Site
Status:	Open - Verification Monitoring
Status Date:	10/20/2009
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Caseworker:	ACJ
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	1033
LOC Case Number:	300784
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply, Soil
EDR Link ID:	T0603714859
Potential Contaminants of Concern:	Benzene, Gasoline
Site History:	The Installation Restoration (IR) Site 1 at Naval and Marine Corps Reserve Center - Los Angeles (NMCRC-LA) consists of a former service

LOS ANGELES NAVAL & MARINE CORPS RES.CEN (Continued) **S102815066**

station and vehicle lube rack area. The site located on approximately six acres of land, about 1 mile northeast of downtown Los Angeles, and is currently used by the City of Los Angeles Fire Department for training purpose. The former gasoline UST and the presence of several drums of unknown waste at the lube rack are potential historical sources of contamination at the site. Contaminated subsurface soils and groundwater below the area of concern are potential current sources of contamination. Type of contaminants identified in soil and groundwater consisted primarily of petroleum hydrocarbons in gasoline and diesel ranges. Analytical results from site investigations identified subsurface soils in the 15 to 25 feet below ground surface (bgs) depths as the soil strata of greatest contamination. Depth to water is approximately 30 feet bgs. The risk to human health from exposure to soil and groundwater is below the level of concern. Currently there is no drinking water wells on the property or within 1-mile radius in the area. The nearest well is located about 3 miles north of the site, which is upgradient to the source area. As of April 2007, groundwater data collected from the site show steady decrease trends and the plume has contained on site. Of the volatile organic compounds detected in groundwater, only 1,2-dichloroethane exceeded the screening level of 0.5 micrograms per liter (ug/l). Benzene concentration has decreased close to its cleanup goal of 1 ug/l.

Click here to access the California GeoTracker records for this facility:

HAZNET:

envid:	S102815066
Year:	2013
GEPAID:	CAC002723379
Contact:	EMMANUEL AMESI
Telephone:	2139783798
Mailing Name:	Not reported
Mailing Address:	111 E FIRST ST RM 600
Mailing City,St,Zip:	LOS ANGELES, CA 900120000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	900120334

76 **GRATTS ELEMENTARY SCHOOL** **ENVIROSTOR** **S104576005**
SW **309 LUCAS AVENUE** **SLIC** **N/A**
1/2-1 **LOS ANGELES, CA 90017** **SCH**
0.663 mi. **ENF**
3498 ft. **HIST CORTESE**

Relative:
Lower

Actual:
399 ft.

ENVIROSTOR:

Facility ID:	19820074
Status:	Certified / Operation & Maintenance
Status Date:	07/09/2014
Site Code:	300762
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	5.2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Ivy Osornio
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	24
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.05784
Longitude:	-118.2623
APN:	5153-025-900, 5153-025-901, 5153-025-902, 5153-025-903, 5153-025-904, 5153-025-905, 5153-025-906, 5153-025-907, 5153-025-908, 5153-025-909, 5153025901, 5153025909
Past Use:	VEHICLE MAINTENANCE
Potential COC:	Benzene Tetrachloroethylene (PCE TPH-diesel
Confirmed COC:	Benzene Tetrachloroethylene (PCE TPH-diesel
Potential Description:	OTH
Alias Name:	GRATTS ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	GRATTS ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	5153-025-900
Alias Type:	APN
Alias Name:	5153-025-901
Alias Type:	APN
Alias Name:	5153-025-902
Alias Type:	APN
Alias Name:	5153-025-903
Alias Type:	APN
Alias Name:	5153-025-904
Alias Type:	APN
Alias Name:	5153-025-905
Alias Type:	APN
Alias Name:	5153-025-906
Alias Type:	APN
Alias Name:	5153-025-907
Alias Type:	APN
Alias Name:	5153-025-908
Alias Type:	APN

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Alias Name: 5153-025-909
Alias Type: APN
Alias Name: 5153025901
Alias Type: APN
Alias Name: 5153025909
Alias Type: APN
Alias Name: 110033620696
Alias Type: EPA (FRS #)
Alias Name: T0603700588
Alias Type: GeoTracker Global ID
Alias Name: 300762
Alias Type: Project Code (Site Code)
Alias Name: 19820074
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/09/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Annual Cost Estimate emailed and mailed to LAUSD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/15/2016
Comments: Annual Cost Estimates Letter, dated 9/15/16, sent to LAUSD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 09/15/2000
Comments: Not reported

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 05/02/2005
Comments: Not reported

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/25/2006
Comments: No Comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/07/2006
Comments: Approved the report with comments

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/24/2007
Comments: Comments sent for future

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/14/2007
Comments: Conditional approval with comments

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/26/2007
Comments: accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/26/2007
Comments: Accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/03/2008
Comments: Acceped with the comments to be considered in the future.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 06/23/2008
Comments: DTSC approved the Pilot Study Workplan for implementation provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/17/2008
Comments: DTSC did not have any comments on the Report

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Workplan
Completed Date: 07/01/2008
Comments: DTSC approved the Pilot Study Workplan for implementation provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Report
Completed Date: 08/19/2009
Comments: DTSC approved the Report.

Completed Area Name: PROJECT WIDE

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/30/2008
Comments: DTSC accepted the Operation and Maintenance report provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/23/2008
Comments: DTSC accepted Operation and Maintenance report provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/08/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/29/2009
Comments: DTSC concurred with the report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/29/2010
Comments: Not reported

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/20/2010
Comments: DTSC concurred with the report.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/28/2010
Comments: DTSC reviewed the O&M report and had no comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/07/2010
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 01/24/2013
Comments: DTSC finalized a Community Profile

Completed Area Name: GW OU

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/24/2013
Comments: DTSC finalized a Fact Sheet

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 12/16/2013
Comments: DTSC approved the OMP

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/08/2011
Comments: DTSC reviwed the O&M report and had no comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/11/2011
Comments: DTSC did not have any comments on the O&M report

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 10/18/2011
Comments: DTSC issued comments on the injection pilot test

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/30/2011
Comments: DTSC reviewed the O&M report and had no comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/18/2013
Comments: Approval of RAW for Implementaton letter w/ Public RTC and NOE.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/09/2011
Comments: DTSC comments on the injection pilot test results will be addressed in the removal action workplan

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/29/2012
Comments: DTSC reviewed the O&M report and had no comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Workplan

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Completed Date: 02/07/2012
Comments: DTSC concurred with the proposed microbial testing

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Report
Completed Date: 03/12/2012
Comments: DTSC provided a comment on the TM that should be addressed in the draft RAW

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/03/2012
Comments: DTSC issued comments on the 3rd and 4th Quarter 2011 remediation status report

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/14/2012
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future fieldwork/reports.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/13/2012
Comments: DTSC approved the remediation status report with comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/25/2012
Comments: DTSC approved the O&M report without comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/24/2013
Comments: DTSC concurs with the report conclusions and recommendations and provided minor comments which may be addressed in future report submittals.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 01/24/2013
Comments: DTSC finalized a Public Notice

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/2014
Comments: DTSC approved the O&M report/RACR provided DTSC comments are addressed in future reports/fieldwork

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/03/2013
Comments: The Report included National Pollutant Discharge Elimination System, Interim Measure Status, and Groundwater and Soil Vapor Monitoring Report for the First Quarter 2013. DTSC concurs with the Report's recommendations and considers the Report to be Final.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/25/2013
Comments: DTSC approved the report provided comments are addressed in future reports/fieldwork

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/14/2014
Comments: DTSC approved the O&M report with comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/18/2014
Comments: DTSC approved the O&M report provided comments are addressed during fieldwork/future reports

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/02/2015
Comments: DTSC concurred with the O&M report provided DTSC comments are addressed during field work/future reports

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/09/2015
Comments: DTSC approved the O&M report provided comments are addressed in future reports

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/09/2015
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future field work/reports

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 08/31/2015
Comments: Concurred with some comments.

Completed Area Name: GW OU

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/22/2015
Comments: Concurred with the Recommendations to Semi Annual Monitoring (Groundwater/Soil Vapor)from Quarterly.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/01/2016
Comments: DTSC issued a conditional approval of the semi annual monitoring report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/25/2016
Comments: Concurred with the Report.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 04/10/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 07/09/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2014
Comments: Not reported

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 03/28/2013
Comments: Not reported

Future Area Name: GW OU
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2019
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Report
Schedule Due Date: 03/28/2017
Schedule Revised Date: Not reported

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 01/30/2015

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Global Id:	T0603700588
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number:	19820074
Latitude:	34.0582226
Longitude:	-118.2617347
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900170089
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SCH:

Facility ID:	19820074
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	5.2
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Ivy Osornio
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	300762
Assembly:	53
Senate:	24
Special Program Status:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance
Status Date:	07/09/2014
Restricted Use:	NO
Funding:	School District
Latitude:	34.05784
Longitude:	-118.2623
APN:	5153-025-900, 5153-025-901, 5153-025-902, 5153-025-903, 5153-025-904, 5153-025-905, 5153-025-906, 5153-025-907, 5153-025-908, 5153-025-909, 5153025901, 5153025909
Past Use:	VEHICLE MAINTENANCE
Potential COC:	Benzene, Tetrachloroethylene (PCE, TPH-diesel
Confirmed COC:	Benzene, Tetrachloroethylene (PCE, TPH-diesel
Potential Description:	OTH
Alias Name:	GRATTS ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	GRATTS ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	5153-025-900
Alias Type:	APN
Alias Name:	5153-025-901
Alias Type:	APN

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Alias Name: 5153-025-902
Alias Type: APN
Alias Name: 5153-025-903
Alias Type: APN
Alias Name: 5153-025-904
Alias Type: APN
Alias Name: 5153-025-905
Alias Type: APN
Alias Name: 5153-025-906
Alias Type: APN
Alias Name: 5153-025-907
Alias Type: APN
Alias Name: 5153-025-908
Alias Type: APN
Alias Name: 5153-025-909
Alias Type: APN
Alias Name: 5153025901
Alias Type: APN
Alias Name: 5153025909
Alias Type: APN
Alias Name: 110033620696
Alias Type: EPA (FRS #)
Alias Name: T0603700588
Alias Type: GeoTracker Global ID
Alias Name: 300762
Alias Type: Project Code (Site Code)
Alias Name: 19820074
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/09/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Annual Cost Estimate emailed and mailed to LAUSD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/15/2016
Comments: Annual Cost Estimates Letter, dated 9/15/16, sent to LAUSD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 09/15/2000
Comments: Not reported

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 05/02/2005

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Comments:	Not reported
Completed Area Name:	GW OU
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	04/25/2006
Comments:	No Comments
Completed Area Name:	GW OU
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	08/07/2006
Comments:	Approved the report with comments
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	04/24/2007
Comments:	Comments sent for future
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	06/14/2007
Comments:	Conditional approval with comments
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	09/26/2007
Comments:	accepted
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	09/26/2007
Comments:	Accepted
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	01/03/2008
Comments:	Acceped with the comments to be considered in the future.
Completed Area Name:	GW OU
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot Study/Treatability Workplan
Completed Date:	06/23/2008
Comments:	DTSC approved the Pilot Study Workplan for implementation provided DTSC comments are incorporated in future field work/reports.
Completed Area Name:	GW OU
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	03/17/2008
Comments:	DTSC did not have any comments on the Report

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Workplan
Completed Date: 07/01/2008
Comments: DTSC approved the Pilot Study Workplan for implementation provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Report
Completed Date: 08/19/2009
Comments: DTSC approved the Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/30/2008
Comments: DTSC accepted the Operation and Maintenance report provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/23/2008
Comments: DTSC accepted Operation and Maintenance report provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/08/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/29/2009
Comments: DTSC concurred with the report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/29/2010
Comments: Not reported

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/20/2010
Comments: DTSC concurred with the report.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/28/2010
Comments: DTSC reviewed the O&M report and had no comments

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/07/2010
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future field work/reports.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 01/24/2013
Comments: DTSC finalized a Community Profile

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/24/2013
Comments: DTSC finalized a Fact Sheet

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 12/16/2013
Comments: DTSC approved the OMP

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/08/2011
Comments: DTSC reviwed the O&M report and had no comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/11/2011
Comments: DTSC did not have any comments on the O&M report

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 10/18/2011
Comments: DTSC issued comments on the injection pilot test

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/30/2011
Comments: DTSC reviewed the O&M report and had no comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/18/2013
Comments: Approval of RAW for Implementaton letter w/ Public RTC and NOE.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Completed Document Type: Technical Report
Completed Date: 11/09/2011
Comments: DTSC comments on the injection pilot test results will be addressed in the removal action workplan

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/29/2012
Comments: DTSC reviewed the O&M report and had no comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Workplan
Completed Date: 02/07/2012
Comments: DTSC concurred with the proposed microbial testing

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Report
Completed Date: 03/12/2012
Comments: DTSC provided a comment on the TM that should be addressed in the draft RAW

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/03/2012
Comments: DTSC issued comments on the 3rd and 4th Quarter 2011 remediation status report

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/14/2012
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future fieldwork/reports.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/13/2012
Comments: DTSC approved the remediation status report with comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/25/2012
Comments: DTSC approved the O&M report without comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/24/2013
Comments: DTSC concurs with the report conclusions and recommendations and provided minor comments which may be addressed in future report submittals.

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 01/24/2013
Comments: DTSC finalized a Public Notice

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/2014
Comments: DTSC approved the O&M report/RACR provided DTSC comments are addressed in future reports/fieldwork

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/03/2013
Comments: The Report included National Pollutant Discharge Elimination System, Interim Measure Status, and Groundwater and Soil Vapor Monitoring Report for the First Quarter 2013. DTSC concurs with the Report's recommendations and considers the Report to be Final.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/25/2013
Comments: DTSC approved the report provided comments are addressed in future reports/fieldwork

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/14/2014
Comments: DTSC approved the O&M report with comments

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/18/2014
Comments: DTSC approved the O&M report provided comments are addressed during fieldwork/future reports

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/02/2015
Comments: DTSC concurred with the O&M report provided DTSC comments are addressed during field work/future reports

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/09/2015
Comments: DTSC approved the O&M report provided comments are addressed in future reports

Completed Area Name: GW OU

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/09/2015
Comments: DTSC approved the O&M report provided DTSC comments are incorporated in future field work/reports

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 08/31/2015
Comments: Concurred with some comments.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/22/2015
Comments: Concurred with the Recommendations to Semi Annual Monitoring (Groundwater/Soil Vapor)from Quarterly.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/01/2016
Comments: DTSC issued a conditional approval of the semi annual monitoring report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/25/2016
Comments: Concurred with the Report.

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 04/10/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 07/09/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2014
Comments: Not reported

Completed Area Name: GW OU
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 03/28/2013
Comments: Not reported

Future Area Name: GW OU

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2019
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	03/28/2017
Schedule Revised Date:	Not reported

ENF:

Region:	4
Facility Id:	266923
Agency Name:	Los Angeles USD Office of Environmental Health & Safety
Place Type:	Residence/Education
Place Subtype:	Educational Facilities
Facility Type:	All other facilities
Agency Type:	Special District
# Of Agencies:	1
Place Latitude:	34.058216
Place Longitude:	-118.261692
SIC Code 1:	8211
SIC Desc 1:	Elementary and Secondary Schools
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.015
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Contaminated ground water
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	4B196800051
Reg Measure Id:	194110
Reg Measure Type:	Enrollee
Region:	4
Order #:	R4-2013-0043
Npdes# CA#:	CAG914001
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/25/2015
Effective Date:	11/15/2002
Expiration/Review Date:	03/07/2018
Termination Date:	06/24/2015
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	15 - WDRs pending rescission
Direction/Voice:	Passive
Enforcement Id(EID):	396999
Region:	4
Order / Resolution Number:	R4-2014-0080
Enforcement Action Type:	Admin Civil Liability
Effective Date:	06/01/2015
Adoption/Issuance Date:	06/01/2015
Achieve Date:	Not reported
Termination Date:	07/01/2015
ACL Issuance Date:	Not reported
EPL Issuance Date:	06/18/2014
Status:	Historical
Title:	ACL R4-2014-0080 for Los Angeles USD Office of Environmental Health & Safety
Description:	4Q10, 1Q11 late SMRs. 9 effluent violations: 1 in 3Q09 (pH) and 1 in 4Q09 (Lead); 7 selenium violations in the 3rd and 4th quarters of 2013.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	6/30/2015
# Of Programs1:	1
Total Assessment Amount:	36000
Initial Assessed Amount:	36000
Liability $ Amount:	36000
Project $ Amount:	0
Liability $ Paid:	36000
Project $ Completed:	0
Total $ Paid/Completed Amount:	36000

Region:	4
Facility Id:	266923
Agency Name:	Los Angeles USD Office of Environmental Health & Safety
Place Type:	Residence/Education
Place Subtype:	Educational Facilities
Facility Type:	All other facilities
Agency Type:	Special District
# Of Agencies:	1
Place Latitude:	34.058216
Place Longitude:	-118.261692
SIC Code 1:	8211
SIC Desc 1:	Elementary and Secondary Schools
SIC Code 2:	Not reported
SIC Desc 2:	Not reported

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	900170089
Reg Measure Id:	167913
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	230263
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	06/28/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	06/28/2000

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 900170089
Description:	Notice of Violation sent 6/28/00 for FTS SAR & free product recovery report.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	4
Facility Id:	266923
Agency Name:	Los Angeles USD Office of Environmental Health & Safety
Place Type:	Residence/Education
Place Subtype:	Educational Facilities
Facility Type:	All other facilities
Agency Type:	Special District
# Of Agencies:	1
Place Latitude:	34.058216
Place Longitude:	-118.261692
SIC Code 1:	8211
SIC Desc 1:	Elementary and Secondary Schools
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	UST
Program Category1:	TANKS
Program Category2:	TANKS
# Of Programs:	1
WDID:	900170089
Reg Measure Id:	167913
Reg Measure Type:	Unregulated
Region:	4

GRATTS ELEMENTARY SCHOOL (Continued) **S104576005**

Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	227893
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	09/12/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	09/12/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 900170089
Description:	Notice of Violation sent 9/12/00 for overdue SAR 2Q00 groundwater monitoring report & 4 free product recovery reports.
Program:	UST
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	900170089

77
ENE
1/2-1
0.722 mi.
3810 ft.

NAVAL RESERVE ARMORY
CHAVEZ RAVINE RD, CA

ENVIROSTOR **S107736852**
N/A

Relative:
Lower

Actual:
394 ft.

ENVIROSTOR:

Facility ID:	80000854
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	51
Senate:	24
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	34.06861
Longitude:	-118.2416
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	Explosives (UXO, MEC
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F997500
Alias Type:	Federal Facility ID
Alias Name:	J09CA7152
Alias Type:	INPR
Alias Name:	80000854
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	07/28/1997
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

78
NNW
1/2-1
0.820 mi.
4327 ft.

HOLLOWAY DRY CLEANERS
1159 ECHO PARK BLVD
LOS ANGELES, CA 90026

Notify 65 **S100178588**
N/A

Relative:
Lower

Actual:
395 ft.

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

U79
South
1/2-1
0.847 mi.
4470 ft.

SANTA MONICA NEW PRIMARY CENTER
SANTA MONICA BLVD/GORDON ST/LEXINGTON AVE
LOS ANGELES, CA 90038

Site 1 of 17 in cluster U

ENVIROSTOR **S105628638**
SCH **N/A**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19880035
Status:	No Further Action
Status Date:	04/15/2004
Site Code:	304317
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	1.83
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527
APN:	NONE SPECIFIED
Past Use:	RESIDENTIAL AREA
Potential COC:	Lead Formaldehyde
Confirmed COC:	30295-NO 30013-NO
Potential Description:	SOIL
Alias Name:	LAUSD-SANTA MONICA NEW PC
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	SANTA MONICA NEW PRIMARY CENTER
Alias Type:	Alternate Name
Alias Name:	304317
Alias Type:	Project Code (Site Code)
Alias Name:	19880035
Alias Type:	Envirostor ID Number

Completed Info:

SANTA MONICA NEW PRIMARY CENTER (Continued) **S105628638**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/29/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 07/11/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/13/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 03/23/2012
Comments: 2nd Collection Letter sent for Inv. 03SM1854.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/15/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 02/16/2012
Comments: First Collection Letter 03SM1854

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19880035
Site Type: School Investigation
Site Type Detail: School

SANTA MONICA NEW PRIMARY CENTER (Continued) **S105628638**

Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.83
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304317
Assembly:	53
Senate:	30
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	04/15/2004
Restricted Use:	NO
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527
APN:	NONE SPECIFIED
Past Use:	RESIDENTIAL AREA
Potential COC:	Lead, Formaldehyde
Confirmed COC:	30295-NO, 30013-NO
Potential Description:	SOIL
Alias Name:	LAUSD-SANTA MONICA NEW PC
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	SANTA MONICA NEW PRIMARY CENTER
Alias Type:	Alternate Name
Alias Name:	304317
Alias Type:	Project Code (Site Code)
Alias Name:	19880035
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/29/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	07/11/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	01/13/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	03/23/2012

SANTA MONICA NEW PRIMARY CENTER (Continued) **S105628638**

Comments:	2nd Collection Letter sent for Inv. 03SM1854.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	04/15/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	02/16/2012
Comments:	First Collection Letter 03SM1854
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

U80 **BELMONT NEW PRIMARY CENTER NO. 12** **ENVIROSTOR** **S107735904**
South **LAKE STREET/ROSELAKE AVENUE** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90026**
0.847 mi.
4470 ft. **Site 2 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19880022
Status:	No Further Action
Status Date:	10/10/2003
Site Code:	304310
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527

BELMONT NEW PRIMARY CENTER NO. 12 (Continued) **S107735904**

APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: Asbestos Containing Materials (ACM Lead
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: BELMONT NEW PRIMARY CENTER #12
Alias Type: Alternate Name
Alias Name: BELOMOT NEW PRIMARY CENTER #12
Alias Type: Alternate Name
Alias Name: BELOMOT NEW PRIMARY CENTER NO. 12
Alias Type: Alternate Name
Alias Name: LAUSD-BELMONT PC # 12
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 304310
Alias Type: Project Code (Site Code)
Alias Name: 19880022
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/10/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/11/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 07/10/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 09/30/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.14 Request
Completed Date: 08/05/2003
Comments: 4.14 request received post PEA and pre-SSI.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported

BELMONT NEW PRIMARY CENTER NO. 12 (Continued) **S107735904**

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19880022
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304310
Assembly: 53
Senate: 30
Special Program Status: Not reported
Status: No Further Action
Status Date: 10/10/2003
Restricted Use: NO
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: Asbestos Containing Materials (ACM, Lead
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: BELMONT NEW PRIMARY CENTER #12
Alias Type: Alternate Name
Alias Name: BELOMOT NEW PRIMARY CENTER #12
Alias Type: Alternate Name
Alias Name: BELOMOT NEW PRIMARY CENTER NO. 12
Alias Type: Alternate Name
Alias Name: LAUSD-BELMONT PC # 12
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 304310
Alias Type: Project Code (Site Code)
Alias Name: 19880022
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo

BELMONT NEW PRIMARY CENTER NO. 12 (Continued) **S107735904**

Completed Date:	10/10/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/11/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	07/10/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	09/30/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	4.14 Request
Completed Date:	08/05/2003
Comments:	4.14 request received post PEA and pre-SSI.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

U81 **HOOPER NEW PRIMARY CENTER** **ENVIROSTOR** **S118756618**
South **EAST 52ND STREET/HOOPER AVENUE** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90011**
0.847 mi.
4470 ft. **Site 3 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19880043
Status:	No Action Required
Status Date:	10/10/2003
Site Code:	304284
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	2
NPL:	NO

HOOPER NEW PRIMARY CENTER (Continued) **S118756618**

Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 53
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: HOOPER NEW PRIMARY CENTER
Alias Type: Alternate Name
Alias Name: LAUSD-HOOPER PC
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 304284
Alias Type: Project Code (Site Code)
Alias Name: 19880043
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/15/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 07/24/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/10/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 05/11/2001

HOOPER NEW PRIMARY CENTER (Continued) **S118756618**

Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19880043
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304284
Assembly: 53
Senate: 30
Special Program Status: Not reported
Status: No Action Required
Status Date: 10/10/2003
Restricted Use: NO
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: NONE SPECIFIED, No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: HOOPER NEW PRIMARY CENTER
Alias Type: Alternate Name
Alias Name: LAUSD-HOOPER PC
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 304284
Alias Type: Project Code (Site Code)
Alias Name: 19880043
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/15/2001

HOOPER NEW PRIMARY CENTER (Continued) **S118756618**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 07/24/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/10/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 05/11/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

U82 **FREMONT NEW PRIMARY CENTER NO. 2** **ENVIROSTOR** **S105628627**
South **MENLO AVENUE/BARING CROSS STREET** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90044**
0.847 mi.
4470 ft. **Site 4 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:
Facility ID: 19880023
Status: No Further Action
Status Date: 10/10/2003
Site Code: 304298
Site Type: School Investigation
Site Type Detailed: School
Acres: 2
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 53
Senate: 30

FREMONT NEW PRIMARY CENTER NO. 2 (Continued) **S105628627**

Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: Chromium VI Nickel
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: FREMONT NEW PRIMARY CENTER #2
Alias Type: Alternate Name
Alias Name: FREMONT NEW PRIMARY CENTER #2 (PROP)
Alias Type: Alternate Name
Alias Name: FREMONT NEW PRIMARY CENTER NO. 2
Alias Type: Alternate Name
Alias Name: LAUSD-FREMONT NEW PC # 2
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 304298
Alias Type: Project Code (Site Code)
Alias Name: 19880023
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/10/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 01/31/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/31/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 06/18/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 09/11/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE

FREMONT NEW PRIMARY CENTER NO. 2 (Continued) **S105628627**

Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19880023
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304298
Assembly: 53
Senate: 30
Special Program Status: Not reported
Status: No Further Action
Status Date: 10/10/2003
Restricted Use: NO
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: Chromium VI, Chromium VI, Nickel
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: FREMONT NEW PRIMARY CENTER #2
Alias Type: Alternate Name
Alias Name: FREMONT NEW PRIMARY CENTER #2 (PROP)
Alias Type: Alternate Name
Alias Name: FREMONT NEW PRIMARY CENTER NO. 2
Alias Type: Alternate Name
Alias Name: LAUSD-FREMONT NEW PC # 2
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 304298
Alias Type: Project Code (Site Code)
Alias Name: 19880023

FREMONT NEW PRIMARY CENTER NO. 2 (Continued) **S105628627**

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/10/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 01/31/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/31/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 06/18/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 09/11/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

U83 **MARSHALL NEW PRIMARY CENTER NO. 1** **ENVIROSTOR** **S112057176**
South **LEXINGTON AVE/WESTMORELAND AVE/LYMAN PLACE** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90029**
0.847 mi.
4470 ft. **Site 5 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19650016
Status:	No Further Action
Status Date:	11/25/2002
Site Code:	304294
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	2.05
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527
APN:	NONE SPECIFIED
Past Use:	RESIDENTIAL AREA
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	LAUSD-MARSHAL NEW PC#1
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	MARSHALL NEW PRIMARY CENTER #1
Alias Type:	Alternate Name
Alias Name:	304294
Alias Type:	Project Code (Site Code)
Alias Name:	19650016
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	06/18/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	11/25/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)

MARSHALL NEW PRIMARY CENTER NO. 1 (Continued) **S112057176**

Completed Date: 06/18/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/29/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19650016
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2.05
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304294
Assembly: 53
Senate: 30
Special Program Status: Not reported
Status: No Further Action
Status Date: 11/25/2002
Restricted Use: NO
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: NONE SPECIFIED, No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: LAUSD-MARSHAL NEW PC#1
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT

MARSHALL NEW PRIMARY CENTER NO. 1 (Continued) **S112057176**

Alias Type: Alternate Name
Alias Name: MARSHALL NEW PRIMARY CENTER #1
Alias Type: Alternate Name
Alias Name: 304294
Alias Type: Project Code (Site Code)
Alias Name: 19650016
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 06/18/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 11/25/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/18/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/29/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

U84 **EAST VALLEY AREA NEW HIGH SCHOOL NO. 1B** **ENVIROSTOR** **S106387259**
South **VINELAND AVENUE/CUMPSTON STREET** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 91601**
0.847 mi.
4470 ft. **Site 6 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19000011
Status:	Certified
Status Date:	09/24/2008
Site Code:	304295
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	6.4
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Ivy Osornio
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	18
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.16868
Longitude:	-118.3704
APN:	2350-013-901, 2350-013-902
Past Use:	VEHICLE MAINTENANCE
Potential COC:	Lead
Confirmed COC:	Lead
Potential Description:	SOIL, SV
Alias Name:	EAST VALLEY AREA NEW HIGH SCHOOL #1B
Alias Type:	Alternate Name
Alias Name:	East Valley HS
Alias Type:	Alternate Name
Alias Name:	LAUSD-EAST VALLEY NEW HS #1B
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	2350-013-901
Alias Type:	APN
Alias Name:	2350-013-902
Alias Type:	APN
Alias Name:	110033606211
Alias Type:	EPA (FRS #)
Alias Name:	304295
Alias Type:	Project Code (Site Code)
Alias Name:	19000011
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	03/10/2008
Comments:	DTSC certified the EVHS 1B project
Completed Area Name:	PROJECT WIDE

EAST VALLEY AREA NEW HIGH SCHOOL NO. 1B (Continued) **S106387259**

Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 07/10/2007
Comments: DTSC filed Notice of Exemption Pursuant to California Environmental Quality Act.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/29/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 06/21/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 01/10/2007
Comments: DTSC concurred with the sampling plan proposed in the SSI TM

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/15/2007
Comments: FA required for lead

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/10/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/13/2007
Comments: Fact sheet approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/11/2008
Comments: DTSC determined that No Further Action is necessary based on the Removal Action Completion Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/28/2008
Comments: DTSC approved the construction response report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

EAST VALLEY AREA NEW HIGH SCHOOL NO. 1B (Continued) **S106387259**

Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	11/25/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	01/22/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	09/18/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/10/2008
Comments:	DTSC prepared Cost Recovery Unit close out Memorandum
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19000011
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	6.4
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Ivy Osornio
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304295
Assembly:	53
Senate:	18
Special Program Status:	Not reported
Status:	Certified

EAST VALLEY AREA NEW HIGH SCHOOL NO. 1B (Continued) **S106387259**

Status Date:	09/24/2008
Restricted Use:	NO
Funding:	School District
Latitude:	34.16868
Longitude:	-118.3704
APN:	2350-013-901, 2350-013-902
Past Use:	VEHICLE MAINTENANCE
Potential COC:	Lead
Confirmed COC:	Lead
Potential Description:	SOIL, SV
Alias Name:	EAST VALLEY AREA NEW HIGH SCHOOL #1B
Alias Type:	Alternate Name
Alias Name:	East Valley HS
Alias Type:	Alternate Name
Alias Name:	LAUSD-EAST VALLEY NEW HS #1B
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	2350-013-901
Alias Type:	APN
Alias Name:	2350-013-902
Alias Type:	APN
Alias Name:	110033606211
Alias Type:	EPA (FRS #)
Alias Name:	304295
Alias Type:	Project Code (Site Code)
Alias Name:	19000011
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	03/10/2008
Comments:	DTSC certified the EVHS 1B project
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	07/10/2007
Comments:	DTSC filed Notice of Exemption Pursuant to California Environmental Quality Act.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/29/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	06/21/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Tech Memo

EAST VALLEY AREA NEW HIGH SCHOOL NO. 1B (Continued) **S106387259**

Completed Date: 01/10/2007
Comments: DTSC concurred with the sampling plan proposed in the SSI TM

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/15/2007
Comments: FA required for lead

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/10/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/13/2007
Comments: Fact sheet approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/11/2008
Comments: DTSC determined that No Further Action is necessary based on the Removal Action Completion Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/28/2008
Comments: DTSC approved the construction response report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 11/25/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/22/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/18/2008
Comments: Not reported

EAST VALLEY AREA NEW HIGH SCHOOL NO. 1B (Continued) **S106387259**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/10/2008
Comments:	DTSC prepared Cost Recovery Unit close out Memorandum
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

U85 **CENTRAL LOS ANGELES MIDDLE SCHOOL NO. 4** **ENVIROSTOR** **S105628499**
South **BROADWAY/GRAND AVE/35TH & 37TH STREET** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90007**
0.847 mi.
4470 ft. **Site 7 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19390058
Status:	Certified
Status Date:	07/27/2006
Site Code:	304312
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	8
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.01783
Longitude:	-118.2759
APN:	5122-029-003, 5122-029-004, 5122-029-011, 5122-033-001, 5122-033-009, 5122-033-015, 5122-033-017, 5122-034-011, 5122-034-012, 5122-034-013, 5122-034-014, 5122-034-015, 5122-034-016, 5122-034-017, 5122-034-018
Past Use:	MANUFACTURING - OTHER, NONE
Potential COC:	Lead Arsenic Lead
Confirmed COC:	Arsenic Lead
Potential Description:	SOIL, SOIL
Alias Name:	CENTRAL LOS ANGELES MIDDLE SCHOOL NO. 4
Alias Type:	Alternate Name
Alias Name:	LAUSD-CENTRAL LA MS # 4
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	5122-029-003

CENTRAL LOS ANGELES MIDDLE SCHOOL NO. 4 (Continued) **S105628499**

Alias Type: APN
Alias Name: 5122-029-004
Alias Type: APN
Alias Name: 5122-029-011
Alias Type: APN
Alias Name: 5122-033-001
Alias Type: APN
Alias Name: 5122-033-009
Alias Type: APN
Alias Name: 5122-033-015
Alias Type: APN
Alias Name: 5122-033-017
Alias Type: APN
Alias Name: 5122-034-011
Alias Type: APN
Alias Name: 5122-034-012
Alias Type: APN
Alias Name: 5122-034-013
Alias Type: APN
Alias Name: 5122-034-014
Alias Type: APN
Alias Name: 5122-034-015
Alias Type: APN
Alias Name: 5122-034-016
Alias Type: APN
Alias Name: 5122-034-017
Alias Type: APN
Alias Name: 5122-034-018
Alias Type: APN
Alias Name: 110033619378
Alias Type: EPA (FRS #)
Alias Name: 304312
Alias Type: Project Code (Site Code)
Alias Name: 19390058
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/16/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/16/2007
Comments: CRU Memo

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement

CENTRAL LOS ANGELES MIDDLE SCHOOL NO. 4 (Continued) **S105628499**

Completed Date: 02/10/2000
Comments: LAUSD MASTER OVERSIGHT AGREEMENT (DOCKET NO. HSA-A 99/00-051) EXECUTED ON 2/10/00. As part of the Master Oversight Agreement between DTSC and the Los Angeles Unified School District (LAUSD), DTSC will provide oversight for a Preliminary Endangerment Assessment (PEA) for the proposed Central Los Angeles Middle School #4 site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 06/05/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/12/2006
Comments: Implementation of RAW began on 6/8/2006 and completed on 6/12/2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 02/08/2006
Comments: DTSC provided comments to FSI TM on 1/27/2006. Revised FSI TM received on 2/2/2006. DTSC conditionally approved FSI TM.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 11/03/2005
Comments: Areas A & B sampled for potential fill material. No Further Action determination for Areas A & B only.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 03/17/2006
Comments: DTSC concurs with Supplemental Site Investigation that further action is required for lead and arsenic.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 06/05/2006
Comments: No written or verbal comments received during 30-day public comment period. DTSC approves RAW for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/10/2006
Comments: FSI Report approved for further action, for arsenic and lead.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/05/2006

CENTRAL LOS ANGELES MIDDLE SCHOOL NO. 4 (Continued) **S105628499**

Comments:	DTSC approves the RACR. 377.5 tons of arsenic and lead contaminated soil was excavated and transported offsite for disposal at Clean Harbors Environmental Services, Inc. in Buttonwillow, CA. Confirmation samples show all contamination has been removed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/22/2001
Comments:	RP provided report for background information (see RP - Final).
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/11/2002
Comments:	DTSC issued a Preliminary Endangerment Assessment determination, requiring further action at the proposed school site. Further Action for Lead and Asbestos only.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	05/30/2002
Comments:	DTSC approved the Supplemental Site Investigation and determined that remediation is required at the proposed school site. Lead and Asbestos only for older structures that may contain lead based paint.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	10/02/2003
Comments:	Addendum for LBP. Approved SSI for NFA.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	07/27/2006
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19390058
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	8
National Priorities List:	NO

CENTRAL LOS ANGELES MIDDLE SCHOOL NO. 4 (Continued) **S105628499**

Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304312
Assembly:	53
Senate:	30
Special Program Status:	Not reported
Status:	Certified
Status Date:	07/27/2006
Restricted Use:	NO
Funding:	School District
Latitude:	34.01783
Longitude:	-118.2759
APN:	5122-029-003, 5122-029-004, 5122-029-011, 5122-033-001, 5122-033-009, 5122-033-015, 5122-033-017, 5122-034-011, 5122-034-012, 5122-034-013, 5122-034-014, 5122-034-015, 5122-034-016, 5122-034-017, 5122-034-018
Past Use:	MANUFACTURING - OTHER, NONE
Potential COC:	Lead, Lead, Arsenic, Lead
Confirmed COC:	Arsenic, Lead
Potential Description:	SOIL, SOIL
Alias Name:	CENTRAL LOS ANGELES MIDDLE SCHOOL NO. 4
Alias Type:	Alternate Name
Alias Name:	LAUSD-CENTRAL LA MS # 4
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	5122-029-003
Alias Type:	APN
Alias Name:	5122-029-004
Alias Type:	APN
Alias Name:	5122-029-011
Alias Type:	APN
Alias Name:	5122-033-001
Alias Type:	APN
Alias Name:	5122-033-009
Alias Type:	APN
Alias Name:	5122-033-015
Alias Type:	APN
Alias Name:	5122-033-017
Alias Type:	APN
Alias Name:	5122-034-011
Alias Type:	APN
Alias Name:	5122-034-012
Alias Type:	APN
Alias Name:	5122-034-013
Alias Type:	APN
Alias Name:	5122-034-014
Alias Type:	APN
Alias Name:	5122-034-015
Alias Type:	APN
Alias Name:	5122-034-016
Alias Type:	APN
Alias Name:	5122-034-017
Alias Type:	APN

CENTRAL LOS ANGELES MIDDLE SCHOOL NO. 4 (Continued) **S105628499**

Alias Name: 5122-034-018
Alias Type: APN
Alias Name: 110033619378
Alias Type: EPA (FRS #)
Alias Name: 304312
Alias Type: Project Code (Site Code)
Alias Name: 19390058
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/16/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/26/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/16/2007
Comments: CRU Memo

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: LAUSD MASTER OVERSIGHT AGREEMENT (DOCKET NO. HSA-A 99/00-051) EXECUTED ON 2/10/00. As part of the Master Oversight Agreement between DTSC and the Los Angeles Unified School District (LAUSD), DTSC will provide oversight for a Preliminary Endangerment Assessment (PEA) for the proposed Central Los Angeles Middle School #4 site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 06/05/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/12/2006
Comments: Implementation of RAW began on 6/8/2006 and completed on 6/12/2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 02/08/2006
Comments: DTSC provided comments to FSI TM on 1/27/2006. Revised FSI TM received on 2/2/2006. DTSC conditionally approved FSI TM.

Completed Area Name: PROJECT WIDE

CENTRAL LOS ANGELES MIDDLE SCHOOL NO. 4 (Continued) **S105628499**

Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 11/03/2005
Comments: Areas A & B sampled for potential fill material. No Further Action determination for Areas A & B only.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 03/17/2006
Comments: DTSC concurs with Supplemental Site Investigation that further action is required for lead and arsenic.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 06/05/2006
Comments: No written or verbal comments received during 30-day public comment period. DTSC approves RAW for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 04/10/2006
Comments: FSI Report approved for further action, for arsenic and lead.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/05/2006
Comments: DTSC approves the RACR. 377.5 tons of arsenic and lead contaminated soil was excavated and transported offsite for disposal at Clean Harbors Environmental Services, Inc. in Buttonwillow, CA. Confirmation samples show all contamination has been removed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/22/2001
Comments: RP provided report for background information (see RP - Final).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/11/2002
Comments: DTSC issued a Preliminary Endangerment Assessment determination, requiring further action at the proposed school site. Further Action for Lead and Asbestos only.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/30/2002
Comments: DTSC approved the Supplemental Site Investigation and determined that remediation is required at the proposed school site. Lead and Asbestos only for older structures that may contain lead based paint.

CENTRAL LOS ANGELES MIDDLE SCHOOL NO. 4 (Continued) **S105628499**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	10/02/2003
Comments:	Addendum for LBP. Approved SSI for NFA.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	07/27/2006
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

U86 **JEFFERSON NEW ELEMENTARY SCHOOL NO. 7** **ENVIROSTOR** **S107736506**
South **WADWORTH AVENUE/52ND PLACE** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90011**
0.847 mi.
4470 ft. **Site 8 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19880016
Status:	Certified
Status Date:	12/13/2003
Site Code:	304288
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	2.85
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.99489
Longitude:	-118.2589
APN:	NONE SPECIFIED
Past Use:	RESIDENTIAL AREA
Potential COC:	Lead
Confirmed COC:	Lead
Potential Description:	SOIL
Alias Name:	JEFFERSON NEW ELEMENTARY SCHOOL NO. 7
Alias Type:	Alternate Name
Alias Name:	LAUSD-JEFFERSON NEW ES # 7

JEFFERSON NEW ELEMENTARY SCHOOL NO. 7 (Continued) **S107736506**

Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 110033606685
Alias Type: EPA (FRS #)
Alias Name: 304288
Alias Type: Project Code (Site Code)
Alias Name: 19880016
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 10/08/2003
Comments: CEQA approved for the Removal Action. Notice of Exemption filed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 10/15/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/15/2002
Comments: DTSC issued a Preliminary Endangerment Assessment determination, requiring further action at the proposed school site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/08/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/14/2003
Comments: RAW approved, no public comment period due to small volume and low interest.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 07/09/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 12/17/2003
Comments: DTSC approved the Supplemental Site Investigation (SSI) and determined neither an actual or a potential release of hazardous material, nor the presence of naturally occurring hazardous material indicated at the site pose a threat to human health or the environment under any land use. Therefore, DTSC concurred that no

JEFFERSON NEW ELEMENTARY SCHOOL NO. 7 (Continued) **S107736506**

further environmental investigation or cleanup was required at this site, and approved the SSI. Cert site, Cert RA-RAC apprvd.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: LAUSD MASTER OVERSIGHT AGREEMENT (DOCKET NO. HSA-A 99/00-051) EXECUTED ON 2/10/00. As part of the Master Oversight Agreement between DTSC and the Los Angeles Unified School District (LAUSD), DTSC will provide oversight for a Preliminary Endangerment Assessment (PEA) for the proposed Jefferson New Elementary School No. 27 site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/09/2003
Comments: DTSC has determined that all appropriate response actions have been completed, that all acceptable engineering practices were implemented and that no further removal/remedial action is necessary and certified the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/17/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19880016
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 2.85
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304288
Assembly: 53
Senate: 30
Special Program Status: Not reported
Status: Certified

JEFFERSON NEW ELEMENTARY SCHOOL NO. 7 (Continued) **S107736506**

Status Date:	12/13/2003
Restricted Use:	NO
Funding:	School District
Latitude:	33.99489
Longitude:	-118.2589
APN:	NONE SPECIFIED
Past Use:	RESIDENTIAL AREA
Potential COC:	Lead
Confirmed COC:	Lead
Potential Description:	SOIL
Alias Name:	JEFFERSON NEW ELEMENTARY SCHOOL NO. 7
Alias Type:	Alternate Name
Alias Name:	LAUSD-JEFFERSON NEW ES # 7
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	110033606685
Alias Type:	EPA (FRS #)
Alias Name:	304288
Alias Type:	Project Code (Site Code)
Alias Name:	19880016
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* CEQA
Completed Date:	10/08/2003
Comments:	CEQA approved for the Removal Action. Notice of Exemption filed.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	10/15/2003
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	02/15/2002
Comments:	DTSC issued a Preliminary Endangerment Assessment determination, requiring further action at the proposed school site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	12/08/2003
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/14/2003
Comments:	RAW approved, no public comment period due to small volume and low interest.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

JEFFERSON NEW ELEMENTARY SCHOOL NO. 7 (Continued) **S107736506**

Completed Document Type: Supplemental Site Investigation Report
Completed Date: 07/09/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 12/17/2003
Comments: DTSC approved the Supplemental Site Investigation (SSI) and determined neither an actual or a potential release of hazardous material, nor the presence of naturally occurring hazardous material indicated at the site pose a threat to human health or the environment under any land use. Therefore, DTSC concurred that no further environmental investigation or cleanup was required at this site, and approved the SSI. Cert site, Cert RA-RAC apprvd.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: LAUSD MASTER OVERSIGHT AGREEMENT (DOCKET NO. HSA-A 99/00-051) EXECUTED ON 2/10/00. As part of the Master Oversight Agreement between DTSC and the Los Angeles Unified School District (LAUSD), DTSC will provide oversight for a Preliminary Endangerment Assessment (PEA) for the proposed Jefferson New Elementary School No. 27 site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/09/2003
Comments: DTSC has determined that all appropriate response actions have been completed, that all acceptable engineering practices were implemented and that no further removal/remedial action is necessary and certified the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/17/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

U87 **WEEMES ELEMENTARY SCHOOL PLAYGROUND** **ENVIROSTOR** **S105628620**
South **1201-1203, 1205, 1207, 1215 WEST 37TH STREET** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90007**
0.847 mi.
4470 ft. **Site 9 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19880015
Status:	Certified
Status Date:	11/12/2003
Site Code:	304338
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	.64
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.02138
Longitude:	-118.2963
APN:	NONE SPECIFIED
Past Use:	RESIDENTIAL AREA
Potential COC:	Chlordane Dieldrin DDD DDT Lead DDE
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	LAUSD-WEEMES ELEM SCHOOL PLAYGROUND EXP
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	WEEMES ELEMENTARY SCHOOL PLAYGROUND
Alias Type:	Alternate Name
Alias Name:	110033614453
Alias Type:	EPA (FRS #)
Alias Name:	304338
Alias Type:	Project Code (Site Code)
Alias Name:	19880015
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Public Participation
Completed Date:	03/11/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	08/01/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE

WEEMES ELEMENTARY SCHOOL PLAYGROUND (Continued) **S105628620**

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/28/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/02/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 11/12/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/21/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/31/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 11/12/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 10/23/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/19/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 02/10/2003

WEEMES ELEMENTARY SCHOOL PLAYGROUND (Continued) **S105628620**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/28/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19880015
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: .64
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304338
Assembly: 53
Senate: 30
Special Program Status: Not reported
Status: Certified
Status Date: 11/12/2003
Restricted Use: NO
Funding: School District
Latitude: 34.02138
Longitude: -118.2963
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: Chlordane, Chlordane, Dieldrin, DDD, DDT, Lead, DDE
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: LAUSD-WEEMES ELEM SCHOOL PLAYGROUND EXP
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: WEEMES ELEMENTARY SCHOOL PLAYGROUND
Alias Type: Alternate Name
Alias Name: 110033614453
Alias Type: EPA (FRS #)
Alias Name: 304338
Alias Type: Project Code (Site Code)

WEEMES ELEMENTARY SCHOOL PLAYGROUND (Continued) **S105628620**

Alias Name: 19880015
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 03/11/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/01/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/28/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/02/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 11/12/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/21/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 01/31/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 11/12/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 10/23/2003
Comments: Not reported

WEEMES ELEMENTARY SCHOOL PLAYGROUND (Continued) **S105628620**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/19/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 02/10/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/28/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

U88 **VINE NEW PRIMARY CENTER** **ENVIROSTOR** **S105628533**
South **LA MIRADA AVE/CAHUENGA BLVD/LEXINGTON AVE/COLE AVE** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90038**
0.847 mi.
4470 ft. **Site 10 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:
Facility ID: 19650022
Status: Inactive - Action Required
Status Date: 03/20/2003
Site Code: 304212
Site Type: School Investigation
Site Type Detailed: School
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 53
Senate: 30
Special Program: Not reported
Restricted Use: NO

VINE NEW PRIMARY CENTER (Continued) **S105628533**

Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: * UNKNOWN
Potential COC: Lead Polychlorinated biphenyls (PCBs
Confirmed COC: Polychlorinated biphenyls (PCBs Lead
Potential Description: SOIL
Alias Name: LA USD-VINE NEW PC
Alias Type: Alternate Name
Alias Name: LAUSD-VINE NEW PRIMARY CENTER
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: VINE NEW PRIMARY CENTER
Alias Type: Alternate Name
Alias Name: 304023
Alias Type: Project Code (Site Code)
Alias Name: 304212
Alias Type: Project Code (Site Code)
Alias Name: 19650022
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/20/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/04/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/06/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VINE NEW PRIMARY CENTER (Continued) **S105628533**

SCH:

Facility ID:	19650022
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304212
Assembly:	53
Senate:	30
Special Program Status:	Not reported
Status:	Inactive - Action Required
Status Date:	03/20/2003
Restricted Use:	NO
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527
APN:	NONE SPECIFIED
Past Use:	* UNKNOWN
Potential COC:	Lead, Polychlorinated biphenyls (PCBs
Confirmed COC:	Polychlorinated biphenyls (PCBs, Lead
Potential Description:	SOIL
Alias Name:	LA USD-VINE NEW PC
Alias Type:	Alternate Name
Alias Name:	LAUSD-VINE NEW PRIMARY CENTER
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	VINE NEW PRIMARY CENTER
Alias Type:	Alternate Name
Alias Name:	304023
Alias Type:	Project Code (Site Code)
Alias Name:	304212
Alias Type:	Project Code (Site Code)
Alias Name:	19650022
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/20/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported

VINE NEW PRIMARY CENTER (Continued) **S105628533**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	02/04/2000
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	10/06/2000
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

U89 **WILSON NEW ELEMENTARY SCHOOL NO. 1** **ENVIROSTOR** **S105628636**
South **HUNTINGTON DR/LIFUR AVENUE/OAKLAND STREET** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90032**
0.847 mi.
4470 ft. **Site 11 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19880033
Status:	No Further Action
Status Date:	10/16/2003
Site Code:	304315
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	4.76
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527
APN:	NONE SPECIFIED
Past Use:	RESIDENTIAL AREA
Potential COC:	Benzene TPH-diesel
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SURFW
Alias Name:	LAUSD-WILSON NEW ES # 1
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT

WILSON NEW ELEMENTARY SCHOOL NO. 1 (Continued) **S105628636**

Alias Type: Alternate Name
Alias Name: WILSON NEW ELEMENTARY SCHOOL #1
Alias Type: Alternate Name
Alias Name: WILSON NEW ELEMENTARY SCHOOL #1 (PROP)
Alias Type: Alternate Name
Alias Name: WILSON NEW ELEMENTARY SCHOOL NO. 1
Alias Type: Alternate Name
Alias Name: 304315
Alias Type: Project Code (Site Code)
Alias Name: 19880033
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/29/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 07/11/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 08/13/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 07/14/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/16/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

WILSON NEW ELEMENTARY SCHOOL NO. 1 (Continued) **S105628636**

SCH:

Facility ID:	19880033
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	4.76
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304315
Assembly:	53
Senate:	30
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	10/16/2003
Restricted Use:	NO
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527
APN:	NONE SPECIFIED
Past Use:	RESIDENTIAL AREA
Potential COC:	Benzene, Benzene, TPH-diesel
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SURFW
Alias Name:	LAUSD-WILSON NEW ES # 1
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	WILSON NEW ELEMENTARY SCHOOL #1
Alias Type:	Alternate Name
Alias Name:	WILSON NEW ELEMENTARY SCHOOL #1 (PROP)
Alias Type:	Alternate Name
Alias Name:	WILSON NEW ELEMENTARY SCHOOL NO. 1
Alias Type:	Alternate Name
Alias Name:	304315
Alias Type:	Project Code (Site Code)
Alias Name:	19880033
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	01/29/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	07/11/2001
Comments:	Not reported

WILSON NEW ELEMENTARY SCHOOL NO. 1 (Continued) **S105628636**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	08/13/2002
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	07/14/2003
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	10/16/2003
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

U90 **EAST VALLEY MIDDLE SCHOOL NO. 1** **ENVIROSTOR** **S107736257**
South **LAUREL CANYON BOULEVARD/HAMLIN STREET** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 91606**
0.847 mi.
4470 ft. **Site 12 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19750089
Status:	Certified
Status Date:	01/26/2004
Site Code:	304332
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	10
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	18
Special Program:	Not reported
Restricted Use:	NO

EAST VALLEY MIDDLE SCHOOL NO. 1 (Continued) **S107736257**

Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.18849
Longitude: -118.3964
APN: NONE SPECIFIED
Past Use: VEHICLE MAINTENANCE
Potential COC: Chrysene Dibenz[ah]anthracene * phenanthrene Anthracene Benzo[k]fluoranthene Fluoranthene Indeno[1,2,3-cd]pyrene * benzo (ghi) perylene Benzo[b]fluoranthene Benzo[a]pyrene Pyrene Benz[a]anthracene
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: EAST VALLEY MIDDLE SCHOOL #1
Alias Type: Alternate Name
Alias Name: EAST VALLEY MIDDLE SCHOOL #1 (PROPOSED)
Alias Type: Alternate Name
Alias Name: LAUSD-E VALLEY MS # 1
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 110033606220
Alias Type: EPA (FRS #)
Alias Name: 304332
Alias Type: Project Code (Site Code)
Alias Name: 19750089
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/23/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/10/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/15/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/12/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/31/2002
Comments: Not reported

EAST VALLEY MIDDLE SCHOOL NO. 1 (Continued) **S107736257**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 12/19/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/30/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 10/04/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 11/18/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/15/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/26/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19750089
Site Type: School Cleanup
Site Type Detail: School

EAST VALLEY MIDDLE SCHOOL NO. 1 (Continued) **S107736257**

Site Mgmt. Req.:	NONE SPECIFIED
Acres:	10
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304332
Assembly:	53
Senate:	18
Special Program Status:	Not reported
Status:	Certified
Status Date:	01/26/2004
Restricted Use:	NO
Funding:	School District
Latitude:	34.18849
Longitude:	-118.3964
APN:	NONE SPECIFIED
Past Use:	VEHICLE MAINTENANCE
Potential COC:	Chrysene, Chrysene, Dibenz[ah]anthracene, * phenanthrene, Anthracene, Benzo[k]fluoranthene, Fluoranthene, Indeno[1,2,3-cd]pyrene, * benzo (ghi) perylene, Benzo[b]fluoranthene, Benzo[a]pyrene, Pyrene, Benz[a]anthracene
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	EAST VALLEY MIDDLE SCHOOL #1
Alias Type:	Alternate Name
Alias Name:	EAST VALLEY MIDDLE SCHOOL #1 (PROPOSED)
Alias Type:	Alternate Name
Alias Name:	LAUSD-E VALLEY MS # 1
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	110033606220
Alias Type:	EPA (FRS #)
Alias Name:	304332
Alias Type:	Project Code (Site Code)
Alias Name:	19750089
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	09/23/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	05/10/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report

EAST VALLEY MIDDLE SCHOOL NO. 1 (Continued) **S107736257**

Completed Date: 01/15/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/12/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 05/31/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 12/19/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/30/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CEQA
Completed Date: 10/04/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 11/18/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 01/15/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/26/2004
Comments: Not reported

EAST VALLEY MIDDLE SCHOOL NO. 1 (Continued) **S107736257**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

U91 **BELMONT NEW PRIMARY CENTER NO. 2** **ENVIROSTOR** **S118756525**
South **218/220/222/224 N. JUANITA AVE/217/225 N. MADISON AVE** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90004**
0.847 mi.
4470 ft. **Site 13 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19390060
Status:	No Action Required
Status Date:	05/17/2002
Site Code:	304227
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	1.2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	30
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527
APN:	NONE SPECIFIED
Past Use:	MANUFACTURING - OTHER
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	BELMONT NEW PRIMARY CENTER #2
Alias Type:	Alternate Name
Alias Name:	LAUSD-BELMONT USD PC #2
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	304227
Alias Type:	Project Code (Site Code)
Alias Name:	19390060
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo

BELMONT NEW PRIMARY CENTER NO. 2 (Continued) **S118756525**

Completed Date: 05/17/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19390060
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.2
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304227
Assembly: 53
Senate: 30
Special Program Status: Not reported
Status: No Action Required
Status Date: 05/17/2002
Restricted Use: NO
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: MANUFACTURING - OTHER
Potential COC: NONE SPECIFIED, No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: BELMONT NEW PRIMARY CENTER #2
Alias Type: Alternate Name
Alias Name: LAUSD-BELMONT USD PC #2
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 304227
Alias Type: Project Code (Site Code)
Alias Name: 19390060

BELMONT NEW PRIMARY CENTER NO. 2 (Continued) **S118756525**

Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/17/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

U92 **CAHUENGA NEW ELEMENTARY SCHOOL NO. 1** **ENVIROSTOR** **S105628542**
South **WESTERN AVENUE/OXFORD AVENUE** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90004**
0.847 mi.
4470 ft. **Site 14 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:
Facility ID: 19730195
Status: No Further Action
Status Date: 02/26/2004
Site Code: 304276
Site Type: School Investigation
Site Type Detailed: School
Acres: 2.64
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 53
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: * BUSINESS SERVICES
Potential COC: Chloromethane (methyl chloride Carbon disulfide Benzene 1,2,4-Trimethylbenzene Toluene Acetone Molybdenum Tetrachloroethylene (PCE 1,3,5-Trimethylbenzene 1,4-Dichlorobenzene Xylenes

CAHUENGA NEW ELEMENTARY SCHOOL NO. 1 (Continued) **S105628542**

1,2-Dibromo-3-chloropropane (DBCP Methylene chloride
Dichlorodifluoromethane Chloroform Ethylbenzene

Confirmed COC: NONE SPECIFIED
Potential Description: SOIL, SV, SURFW
Alias Name: CAHUENGA NEW ELEMENTARY SCHOOL #1
Alias Type: Alternate Name
Alias Name: CAHUENGA NEW ELEMENTARY SCHOOL NO. 1
Alias Type: Alternate Name
Alias Name: LAUSD-CAHUENGA ES # 1
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 304276
Alias Type: Project Code (Site Code)
Alias Name: 19730195
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/20/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/19/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 12/05/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 05/14/2001
Comments: PEA Workplan implemented without DTSC approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/26/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported

CAHUENGA NEW ELEMENTARY SCHOOL NO. 1 (Continued) **S105628542**

Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19730195
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	2.64
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304276
Assembly:	53
Senate:	30
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	02/26/2004
Restricted Use:	NO
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527
APN:	NONE SPECIFIED
Past Use:	* BUSINESS SERVICES
Potential COC:	Chloromethane (methyl chloride, Chloromethane (methyl chloride, Carbon disulfide, Benzene, 1,2,4-Trimethylbenzene, Toluene, Acetone, Molybdenum, Tetrachloroethylene (PCE, 1,3,5-Trimethylbenzene, 1,4-Dichlorobenzene, Xylenes, 1,2-Dibromo-3-chloropropane (DBCP, Methylene chloride, Dichlorodifluoromethane, Chloroform, Ethylbenzene
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SV, SURFW
Alias Name:	CAHUENGA NEW ELEMENTARY SCHOOL #1
Alias Type:	Alternate Name
Alias Name:	CAHUENGA NEW ELEMENTARY SCHOOL NO. 1
Alias Type:	Alternate Name
Alias Name:	LAUSD-CAHUENGA ES # 1
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	304276
Alias Type:	Project Code (Site Code)
Alias Name:	19730195
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000

CAHUENGA NEW ELEMENTARY SCHOOL NO. 1 (Continued) **S105628542**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/20/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/19/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 12/05/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 05/14/2001
Comments: PEA Workplan implemented without DTSC approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/26/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

U93 **PIO PICO PLAYGROUND EXPANSION** **ENVIROSTOR** **S118756616**
South **1313, 1325, 1327, 1331, 1401 S. VAN NESS AVE.** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90019**
0.847 mi.
4470 ft. **Site 15 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:
Facility ID: 19880036
Status: No Action Required
Status Date: 01/10/2006
Site Code: 304343
Site Type: School Investigation
Site Type Detailed: School
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP

PIO PICO PLAYGROUND EXPANSION (Continued) **S118756616**

Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 53
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: Lead
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: LAUSD-PIO PICO ES PLAYGROUND
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: PIO PICO PLAYGROUND EXPANSION
Alias Type: Alternate Name
Alias Name: 304343
Alias Type: Project Code (Site Code)
Alias Name: 19880036
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/29/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/22/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 11/02/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/04/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 04/16/2002
Comments: Not reported

PIO PICO PLAYGROUND EXPANSION (Continued) **S118756616**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inactive Status Letter
Completed Date:	11/25/2002
Comments:	Inactive Status Letter completed.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19880036
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304343
Assembly:	53
Senate:	30
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	01/10/2006
Restricted Use:	NO
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527
APN:	NONE SPECIFIED
Past Use:	RESIDENTIAL AREA
Potential COC:	Lead
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	LAUSD-PIO PICO ES PLAYGROUND
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	PIO PICO PLAYGROUND EXPANSION
Alias Type:	Alternate Name

PIO PICO PLAYGROUND EXPANSION (Continued) **S118756616**

Alias Name: 304343
Alias Type: Project Code (Site Code)
Alias Name: 19880036
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/29/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/22/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 11/02/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/04/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 04/16/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inactive Status Letter
Completed Date: 11/25/2002
Comments: Inactive Status Letter completed.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

U94 **EAST LOS ANGELES HIGH SCHOOL NO. 1** **ENVIROSTOR** **S107736248**
South **BELVEDERE PARK/CESAR CHAVEZ AVE/MEDNIK AVE/1ST ST** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90022**
0.847 mi.
4470 ft. **Site 16 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:

Facility ID:	19820069
Status:	Inactive - Needs Evaluation
Status Date:	03/17/2003
Site Code:	304320
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	16.35
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53
Senate:	24
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.04039
Longitude:	-118.1606
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Pyrene * phenanthrene * benzo (ghi) perylene Lead DDE Anthracene Copper and compounds Thallium and compounds Benzene Mercury (elemental Toluene Xylenes Dichlorodifluoromethane Ethylbenzene Zinc Molybdenum Beryllium and compounds Dieldrin Chlordane Fluoranthene
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	EAST LOS ANGELES HIGH SCHOOL #1
Alias Type:	Alternate Name
Alias Name:	LAUSD-EAST LA HS # 1
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	110033618681
Alias Type:	EPA (FRS #)
Alias Name:	304320
Alias Type:	Project Code (Site Code)
Alias Name:	19820069
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	02/21/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/17/2003

EAST LOS ANGELES HIGH SCHOOL NO. 1 (Continued) **S107736248**

Comments:	LAUSD has indicated that there will be no more investigation at this time, while they look for another site location.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19820069
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	16.35
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304320
Assembly:	53
Senate:	24
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	03/17/2003
Restricted Use:	NO
Funding:	School District
Latitude:	34.04039
Longitude:	-118.1606
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Pyrene, Pyrene, * phenanthrene, * benzo (ghi) perylene, Lead, DDE, Anthracene, Copper and compounds, Thallium and compounds, Benzene, Mercury (elemental, Toluene, Xylenes, Dichlorodifluoromethane, Ethylbenzene, Zinc, Molybdenum, Beryllium and compounds, Dieldrin, Chlordane, Fluoranthene
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	EAST LOS ANGELES HIGH SCHOOL #1
Alias Type:	Alternate Name
Alias Name:	LAUSD-EAST LA HS # 1
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT

EAST LOS ANGELES HIGH SCHOOL NO. 1 (Continued) **S107736248**

Alias Type: Alternate Name
Alias Name: 110033618681
Alias Type: EPA (FRS #)
Alias Name: 304320
Alias Type: Project Code (Site Code)
Alias Name: 19820069
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/21/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/17/2003
Comments: LAUSD has indicated that there will be no more investigation at this time, while they look for another site location.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

U95 **DOWNTOWN BUSINESS MAGNET** **ENVIROSTOR** **S118756509**
South **1061 & 1081 WEST TEMPLE STREET** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90012**
0.847 mi.
4470 ft. **Site 17 of 17 in cluster U**

Relative:
Lower

Actual:
400 ft.

ENVIROSTOR:
Facility ID: 19000017
Status: No Action Required
Status Date: 05/15/2003
Site Code: 304009
Site Type: School Investigation
Site Type Detailed: School
Acres: 3
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach

DOWNTOWN BUSINESS MAGNET (Continued) **S118756509**

Assembly: 53
Senate: 30
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.05227
Longitude: -118.2527
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: DOWNTOWN BUSINESS MAGNET
Alias Type: Alternate Name
Alias Name: DOWNTOWN BUSINESS MAGNET
Alias Type: Alternate Name
Alias Name: LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: 304009
Alias Type: Project Code (Site Code)
Alias Name: 19000017
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/15/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/30/1999
Comments: Draft Addendum Supplemental Sampling

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 19000017
Site Type: School Investigation

DOWNTOWN BUSINESS MAGNET (Continued) **S118756509**

Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304009
Assembly:	53
Senate:	30
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	05/15/2003
Restricted Use:	NO
Funding:	School District
Latitude:	34.05227
Longitude:	-118.2527
APN:	NONE SPECIFIED
Past Use:	NONE
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	DOWNTOWN BUSINESS MAGNET
Alias Type:	Alternate Name
Alias Name:	DOWNTOWN BUSINESS MAGNET
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	304009
Alias Type:	Project Code (Site Code)
Alias Name:	19000017
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/15/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	11/30/1999
Comments:	Draft Addendum Supplemental Sampling
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	02/10/2000
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported

DOWNTOWN BUSINESS MAGNET (Continued) **S118756509**

Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

96
North
1/2-1
0.911 mi.
4808 ft.

Relative:
Lower

Actual:
400 ft.

REGENCY CLEANERS
1411 ECHO PARK AVE
LOS ANGELES, CA 90026

RCRA-SQG **1000594357**
ENVIROSTOR **CAD983581802**
SLIC
VCP
DEED
FINDS
ECHO
DRYCLEANERS

RCRA-SQG:
Date form received by agency: 05/07/1991
Facility name: REGENCY CLEANERS
Facility address: 1411 ECHO PARK AVE
LOS ANGELES, CA 90026
EPA ID: CAD983581802
Mailing address: ECHO PARK AVE
LOS ANGELES, CA 90026
Contact: KI JUN
Contact address: 1411 ECHO PARK AVE
LOS ANGELES, CA 90026
Contact country: US
Contact telephone: (213) 250-1973
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: JUN KI HWAN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported

REGENCY CLEANERS (Continued) **1000594357**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 60001767
Status: Certified O&M - Land Use Restrictions Only
Status Date: 09/09/2014
Site Code: 301569
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.37
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Richard Allen
Supervisor: Javier Hinojosa
Division Branch: Cleanup Chatsworth
Assembly: 45
Senate: 24
Special Program: Voluntary Cleanup Program
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 34.07831
Longitude: -118.2560
APN: 5419-023-038
Past Use: DRY CLEANING
Potential COC: Tetrachloroethylene (PCE
Confirmed COC: Tetrachloroethylene (PCE
Potential Description: SOIL, SV
Alias Name: 5419-023-038
Alias Type: APN
Alias Name: 301569
Alias Type: Project Code (Site Code)
Alias Name: 60001767
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

REGENCY CLEANERS (Continued) **1000594357**

Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/13/2012
Comments: VCA executed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/25/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: LUR - Notification Response
Completed Date: 06/19/2015
Comments: Uploading today, Drive by on Saturday, 6/20

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/20/2012
Comments: review was completed with recommendations for additional investigations

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 12/20/2012
Comments: workplan approved and implemented

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/14/2013
Comments: field work completed by consultant on 3-1-2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 06/18/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/06/2016
Comments: completed on 1/6/2016

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/25/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 07/26/2013

REGENCY CLEANERS (Continued) **1000594357**

Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 04/05/2005
Global Id: SL0603767361
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.078233
Longitude: -118.256759
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 1166
File Location: Not reported
Potential Media Affected: Aquifer used for drinking water supply
Potential Contaminants of Concern: Tetrachloroethylene (PCE)
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

VCP:
Facility ID: 60001767
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.37
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Richard Allen
Supervisor: Javier Hinojosa
Division Branch: Cleanup Chatsworth
Site Code: 301569
Assembly: 45
Senate: 24
Special Programs Code: Voluntary Cleanup Program
Status: Certified O&M - Land Use Restrictions Only
Status Date: 09/09/2014
Restricted Use: YES
Funding: Not Applicable
Lat/Long: 34.07831 / -118.2560
APN: 5419-023-038
Past Use: DRY CLEANING

REGENCY CLEANERS (Continued) **1000594357**

Potential COC: 30022
Confirmed COC: 30022
Potential Description: SOIL, SV
Alias Name: 5419-023-038
Alias Type: APN
Alias Name: 301569
Alias Type: Project Code (Site Code)
Alias Name: 60001767
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/13/2012
Comments: VCA executed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/25/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: LUR - Notification Response
Completed Date: 06/19/2015
Comments: Uploading today, Drive by on Saturday, 6/20

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/20/2012
Comments: review was completed with recommendations for additional investigations

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 12/20/2012
Comments: workplan approved and implemented

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/14/2013
Comments: field work completed by consultant on 3-1-2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 06/18/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/06/2016

REGENCY CLEANERS (Continued) **1000594357**

Comments: completed on 1/6/2016

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/25/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 07/26/2013
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Envirostor ID: 60001767
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 07/25/2013

FINDS:

Registry ID: 110002843932

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access
1 additional FINDS: record(s) in the EDR Site Report.

REGENCY CLEANERS (Continued) **1000594357**

ECHO:

Envid:	1000594357
Registry ID:	110002843932
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002843932

DRYCLEANERS:

EPA Id:	CAD983581802
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	05/07/1991
Facility Active:	No
Inactive Date:	02/17/2006
Facility Addr2:	Not reported
Owner Name:	JAI SUNG SHIM
Owner Address:	1411 ECHO PARK AVE #102
Owner Address 2:	Not reported
Owner Telephone:	2134829986
Contact Name:	JAEHYUK KWAK (JASON)
Contact Address:	1411 ECHO PARK AVE
Contact Address 2:	Not reported
Contact Telephone:	9099972123
Mailing Name:	Not reported
Mailing Address 1:	11415 MAGNOLIA AVE #8
Mailing Address 2:	Not reported
Mailing City:	RIVERSIDE
Mailing State:	CA
Mailing Zip:	92505
Owner Fax:	Not reported
Region Code:	4

EPA Id:	CAL000344553
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	07/06/2009
Facility Active:	No
Inactive Date:	06/30/2013
Facility Addr2:	Not reported
Owner Name:	KWI MOON. KANG
Owner Address:	1026 S OXFORD AVE UNIT 302
Owner Address 2:	Not reported
Owner Telephone:	2135989828
Contact Name:	KRIS KANG OWNER
Contact Address:	1026 S OXFORD AVE UNIT 302
Contact Address 2:	Not reported
Contact Telephone:	2135989828
Mailing Name:	Not reported
Mailing Address 1:	1411 ECHO PARK AVE STE 102
Mailing Address 2:	Not reported
Mailing City:	LOS ANGELES
Mailing State:	CA
Mailing Zip:	900263300
Owner Fax:	0000000000

REGENCY CLEANERS (Continued) **1000594357**

Region Code: 3

EPA Id: CAL000303521
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 02/17/2006
Facility Active: No
Inactive Date: 06/30/2008
Facility Addr2: Not reported
Owner Name: HYUN SOOK YANG
Owner Address: 1411 ECHO PARK AVE 102
Owner Address 2: Not reported
Owner Telephone: 2134829986
Contact Name: HYUN SOOK YANG OWNER
Contact Address: 1411 ECHO PARK AVE STE 102
Contact Address 2: Not reported
Contact Telephone: 2134829986
Mailing Name: Not reported
Mailing Address 1: 1411 ECHO PARK AVE STE 102
Mailing Address 2: Not reported
Mailing City: LOS ANGELES
Mailing State: CA
Mailing Zip: 900260000
Owner Fax: 2134829986
Region Code: 3

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97 **BLOSSOM PLAZA MIXED USE COMMUNITY** **ENVIROSTOR** **S109691862**
East **900 NORTH BROADWAY STREET** **VCP** **N/A**
1/2-1 **LOS ANGELES, CA 90012** **ENF**
0.916 mi. **NPDES**
4834 ft.

Relative:
Lower

Actual:
307 ft.

ENVIROSTOR:
Facility ID: 60001902
Status: Certified
Status Date: 04/14/2015
Site Code: 301619
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.9
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Cleanup Chatsworth
Assembly: 51
Senate: 24
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.06425
Longitude: -118.2366
APN: 5414013012, 5414013900
Past Use: HOTEL, RETAIL, RETAIL - SERVICE STATION, UNDERGROUND STORAGE TANKS

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

Potential COC: Under Investigation Benzene Lead Methane TPH-diesel TPH-gas Ethylbenzene Toluene Xylenes
Confirmed COC: Benzene 30013-NO Methane 30024-NO 30025-NO Ethylbenzene Xylenes Toluene 31001-NO
Potential Description: OTH, SOIL, SV, UE
Alias Name: 5414013012
Alias Type: APN
Alias Name: 5414013900
Alias Type: APN
Alias Name: 301619
Alias Type: Project Code (Site Code)
Alias Name: 60001902
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 06/09/2013
Comments: DTSC and Project Proponent (Forest City Blossom, LLC) entered into a Voluntary Cleanup Agreement to review and comment on PEAE documents.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/27/2013
Comments: Further action required at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 09/18/2013
Comments: DTSC reviewed and approved the Soil Vapor Sampling Plan to characterize the presence and nature of VOCs, methane, and hydrogen sulfide in the vadose zone beneath the proposed building foundation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 12/20/2013
Comments: DTSC approved the Soil Vapor Survey Results and determined no further environmental investigation of the Sit is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 12/18/2013
Comments: DTSC concurred with the Risk Management Plan for soil, soil vapor, and groundwater for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 12/18/2013
Comments: DTSC approved the HHRE. Based on the HHRE, the residual petroleum-related VOCs detected in soil vapor do not pose an unacceptable risk to future occupants in the proposed multi-level buildings.

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 10/21/2014
Comments: DTSC approved final TCRA Completion Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Time Critical Removal Action Workplan
Completed Date: 06/30/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/01/2015
Comments: Approval of Final Utility Trench Results

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/06/2015
Comments: Work Plan Accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 04/01/2015
Comments: Sent to RP

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 11/01/2013
Comments: VCA Amendment to amend Scope of Work and DTSC Oversight Cost Estimate

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 12/20/2013
Comments: Based on available Site data, DTSC concludes that further environmental investigation of the Site is not required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/18/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/18/2014
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 60001902
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.9
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Cleanup Chatsworth
Site Code: 301619
Assembly: 51
Senate: 24
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 04/14/2015
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 34.06425 / -118.2366
APN: 5414013012, 5414013900
Past Use: HOTEL, RETAIL, RETAIL - SERVICE STATION, UNDERGROUND STORAGE TANKS
Potential COC: 31001, 30003, 30013, 30015, 30024, 30025, 30272, 30550, 30593
Confirmed COC: 30003,30013-NO,30015,30024-NO,30025-NO,30272,30593,30550,31001-NO
Potential Description: OTH, SOIL, SV, UE
Alias Name: 5414013012
Alias Type: APN
Alias Name: 5414013900
Alias Type: APN
Alias Name: 301619
Alias Type: Project Code (Site Code)
Alias Name: 60001902
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 06/09/2013
Comments: DTSC and Project Proponent (Forest City Blossom, LLC) entered into a Voluntary Cleanup Agreement to review and comment on PEAE documents.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/27/2013
Comments: Further action required at the Site.

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 09/18/2013
Comments: DTSC reviewed and approved the Soil Vapor Sampling Plan to characterize the presence and nature of VOCs, methane, and hydrogen sulfide in the vadose zone beneath the proposed building foundation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 12/20/2013
Comments: DTSC approved the Soil Vapor Survey Results and determined no further environmental investigation of the Sit is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 12/18/2013
Comments: DTSC concurred with the Risk Management Plan for soil, soil vapor, and groundwater for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 12/18/2013
Comments: DTSC approved the HHRE. Based on the HHRE, the residual petroleum-related VOCs detected in soil vapor do not pose an unacceptable risk to future occupants in the proposed multi-level buildings.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 10/21/2014
Comments: DTSC approved final TCRA Completion Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Time Critical Removal Action Workplan
Completed Date: 06/30/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/01/2015
Comments: Approval of Final Utility Trench Results

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/06/2015
Comments: Work Plan Accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 04/01/2015
Comments: Sent to RP

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 11/01/2013
Comments: VCA Amendment to amend Scope of Work and DTSC Oversight Cost Estimate

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 12/20/2013
Comments: Based on available Site data, DTSC concludes that further environmental investigation of the Site is not required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/18/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/18/2014
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENF:
Region: 4
Facility Id: 633078
Agency Name: Los Angeles City Dept of Transportation
Place Type: Service/Commercial
Place Subtype: Service/Commercial Site, NEC
Facility Type: All other facilities
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 34.064167
Place Longitude: -118.237500
SIC Code 1: 6512
SIC Desc 1: Operators of Nonresidential Buildings
SIC Code 2: 6552
SIC Desc 2: Land Subdividers and Developers, Except Cemeteries
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.144
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	4B197500075
Reg Measure Id:	302412
Reg Measure Type:	Enrollee
Region:	4
Order #:	R4-2008-0032
Npdes# CA#:	CAG994004
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4800
Status:	Historical
Status Date:	11/15/2013
Effective Date:	08/30/2005
Expiration/Review Date:	06/05/2013
Termination Date:	11/12/2013
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	15 - WDRs pending rescission
Direction/Voice:	Passive
Enforcement Id(EID):	359085
Region:	4
Order / Resolution Number:	R4-2008-0186-M
Enforcement Action Type:	Expedited Payment Letter
Effective Date:	12/19/2008
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	07/06/2010
ACL Issuance Date:	Not reported
EPL Issuance Date:	12/19/2008
Status:	Withdrawn

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

Title:	Expedited Payment Letter sent 12/19/08 for 8 late monitoring reports.
Description:	Expedited Payment Letter sent 12/19/08 for 8 late monitoring reports. MMP amt for 8 late monitoring reports: $300,000 to WDPF. Per 2009 Enforcement Policy Late Report w/o discharge are exempt from MMPs.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	4
Facility Id:	633078
Agency Name:	Los Angeles City Dept of Transportation
Place Type:	Service/Commercial
Place Subtype:	Service/Commercial Site, NEC
Facility Type:	All other facilities
Agency Type:	City Agency
# Of Agencies:	1
Place Latitude:	34.064167
Place Longitude:	-118.237500
SIC Code 1:	6512
SIC Desc 1:	Operators of Nonresidential Buildings
SIC Code 2:	6552
SIC Desc 2:	Land Subdividers and Developers, Except Cemeteries
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.144
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	4B197500075
Reg Measure Id:	302412
Reg Measure Type:	Enrollee
Region:	4
Order #:	R4-2008-0032

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

Npdes# CA#:	CAG994004
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4800
Status:	Historical
Status Date:	11/15/2013
Effective Date:	08/30/2005
Expiration/Review Date:	06/05/2013
Termination Date:	11/12/2013
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	15 - WDRs pending rescission
Direction/Voice:	Passive
Enforcement Id(EID):	341730
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	01/29/2008
Adoption/Issuance Date:	01/29/2008
Achieve Date:	Not reported
Termination Date:	02/01/2008
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV sent 1/29/08 for 9 overdue DMRs (3Q05-3Q07).
Description:	NOV sent 1/29/08 for 9 overdue DMRs (3Q05-3Q07).
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

NPDES:

Npdes Number:	CAG994004
Facility Status:	Historical
Agency Id:	543837
Region:	4
Regulatory Measure Id:	393645
Order No:	R4-2013-0095
Regulatory Measure Type:	Enrollee
Place Id:	633078
WDID:	4B198901023
Program Type:	NPDNONMUNIPRCS

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/19/2013
Expiration Date Of Regulatory Measure:	07/06/2018
Termination Date Of Regulatory Measure:	02/23/2015
Discharge Name:	Forest City Blossom, LLC
Discharge Address:	949 South Hope Street
Discharge City:	Los Angeles
Discharge State:	CA
Discharge Zip:	90015
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	4
Regulatory Measure Id:	441290
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19C368017
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/18/2013
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	05/23/2016
Discharge Name:	Forest City Blossom LLC
Discharge Address:	949 S Hope Street
Discharge City:	Los Angeles
Discharge State:	California
Discharge Zip:	90015
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	441290
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C368017
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	5/23/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	10/2/2013
PROCESSED DATE:	10/18/2013
STATUS CODE NAME:	Terminated
STATUS DATE:	8/16/2016
PLACE SIZE:	1.86
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Frank Frallicciardi
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	213-416-2200
FACILITY CONTACT PHONE EXT:	Not reported

BLOSSOM PLAZA MIXED USE COMMUNITY (Continued) **S109691862**

FACILITY CONTACT EMAIL:	FrankFrallicciardi@ForestCity.net
OPERATOR NAME:	Forest City Blossom LLC
OPERATOR ADDRESS:	949 S Hope Street
OPERATOR CITY:	Los Angeles
OPERATOR STATE:	California
OPERATOR ZIP:	90015
OPERATOR CONTACT NAME:	Frank Frallicciardi
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	213-416-2200
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	FrankFrallicciardi@ForestCity.net
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Forest City Blossom LLC
DEVELOPER ADDRESS:	949 S Hope Street
DEVELOPER CITY:	Los Angeles
DEVELOPER STATE:	California
DEVELOPER ZIP:	90015
DEVELOPER CONTACT NAME:	Frank Frallicciardi
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	N
CONSTYPE BELOW GROUND IND:	N
CONSTYPE CABLE LINE IND:	N
CONSTYPE COMM LINE IND:	N
CONSTYPE COMMERTIAL IND:	Y
CONSTYPE ELECTRICAL LINE IND:	N
CONSTYPE GAS LINE IND:	N
CONSTYPE INDUSTRIAL IND:	N
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	N
CONSTYPE RECONS IND:	N
CONSTYPE RESIDENTIAL IND:	Y
CONSTYPE TRANSPORT IND:	N
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	N
CONSTYPE WATER SEWER IND:	N
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Frank Frallicciardi
CERTIFIER TITLE:	Vice President
CERTIFICATION DATE:	02-OCT-13
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

98
East
1/2-1
0.981 mi.
5179 ft.

CORNFIELD SITE **ENVIROSTOR** **S104573224**
1245 N. SPRING STREET **VCP** **N/A**
LOS ANGELES, CA 90012

Relative:
Lower

Actual:
293 ft.

ENVIROSTOR:

Facility ID:	19400013
Status:	Active
Status Date:	11/17/2014
Site Code:	301019

CORNFIELD SITE (Continued) **S104573224**

Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 32
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Tedd Yargeau
Supervisor: Sayareh Amirebrahimi
Division Branch: Cleanup Chatsworth
Assembly: 51
Senate: 24
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.06805
Longitude: -118.2322
APN: NONE SPECIFIED
Past Use: FUEL - VEHICLE STORAGE/ REFUELING, RAIL ROAD MAINTENANCE SHOP, RAILROAD RIGHT OF WAY
Potential COC: Arsenic Lead TPH-MOTOR OIL
Confirmed COC: Arsenic Lead TPH-MOTOR OIL
Potential Description: OTH, SOIL
Alias Name: CORNFIELDS
Alias Type: Alternate Name
Alias Name: CORNFIELDS RAILYARD
Alias Type: Alternate Name
Alias Name: CORNFIELDS SITE
Alias Type: Alternate Name
Alias Name: FORMER CORNFIELDS SITE
Alias Type: Alternate Name
Alias Name: 110033613686
Alias Type: EPA (FRS #)
Alias Name: 301019
Alias Type: Project Code (Site Code)
Alias Name: 19400013
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/21/2015
Comments: Cornfield Site Annual Cost Estimate Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date: 11/15/2002
Comments: VCA2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/17/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE

CORNFIELD SITE (Continued) **S104573224**

Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/28/2001
Comments: DTSC and proponent, Dept. of Parks and Recreation, enter into Voluntary Cleanup Agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/31/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/28/2003
Comments: VCA2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 11/18/2002
Comments: DTSC approves Removal Action Workplan for Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/16/2002
Comments: Site characterization activities which included additional sampling have been completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/20/2001
Comments: Draft Final PEA Report conditionally approved pending the submittal of the waste manifests to be included in the Final PEA Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/01/1989
Comments: Investigation did not identify major areas of concern.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/01/1999
Comments: Additional subsurface characterization required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/01/1999
Comments: Further characterization required at site.

Completed Area Name: PROJECT WIDE

CORNFIELD SITE (Continued) **S104573224**

Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/17/2002
Comments: Removal Action workplan will be drafted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/01/1999
Comments: Investigation indicated both sale area (Cornfield site, 32 acre sub-parcel of a 50 acre site) and non-sale area (remaining property)contained impacted soil and groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 10/01/2002
Comments: Report submitted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 09/11/2014
Comments: Final SAP reviewed and approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan w/ESD
Completed Date: 03/13/2015
Comments: Final SRAW and TCRAW approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/30/2016
Comments: Fieldwork for removal of arsenic and lead impacted soils on Phase I of Cornfield site completed. Contaminants were discovered during site construction activities.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2017
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report
Future Due Date: 2017
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 19400013
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup

CORNFIELD SITE (Continued) **S104573224**

Site Mgmt. Req.:	NONE SPECIFIED
Acres:	32
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Tedd Yargeau
Supervisor:	Sayareh Amirebrahimi
Division Branch:	Cleanup Chatsworth
Site Code:	301019
Assembly:	51
Senate:	24
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	11/17/2014
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.06805 / -118.2322
APN:	NONE SPECIFIED
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING, RAIL ROAD MAINTENANCE SHOP, RAILROAD RIGHT OF WAY
Potential COC:	30001, 30013, 3002502
Confirmed COC:	30001,30013,3002502
Potential Description:	OTH, SOIL
Alias Name:	CORNFIELDS
Alias Type:	Alternate Name
Alias Name:	CORNFIELDS RAILYARD
Alias Type:	Alternate Name
Alias Name:	CORNFIELDS SITE
Alias Type:	Alternate Name
Alias Name:	FORMER CORNFIELDS SITE
Alias Type:	Alternate Name
Alias Name:	110033613686
Alias Type:	EPA (FRS #)
Alias Name:	301019
Alias Type:	Project Code (Site Code)
Alias Name:	19400013
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/21/2015
Comments:	Cornfield Site Annual Cost Estimate Letter
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date:	11/15/2002
Comments:	VCA2
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	05/17/2002
Comments:	Not reported

CORNFIELD SITE (Continued) **S104573224**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/28/2001
Comments: DTSC and proponent, Dept. of Parks and Recreation, enter into Voluntary Cleanup Agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/31/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/28/2003
Comments: VCA2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 11/18/2002
Comments: DTSC approves Removal Action Workplan for Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/16/2002
Comments: Site characterization activities which included additional sampling have been completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/20/2001
Comments: Draft Final PEA Report conditionally approved pending the submittal of the waste manifests to be included in the Final PEA Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/01/1989
Comments: Investigation did not identify major areas of concern.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/01/1999
Comments: Additional subsurface characterization required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/01/1999
Comments: Further characterization required at site.

CORNFIELD SITE (Continued) **S104573224**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/17/2002
Comments:	Removal Action workplan will be drafted.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	10/01/1999
Comments:	Investigation indicated both sale area (Cornfield site, 32 acre sub-parcel of a 50 acre site) and non-sale area (remaining property)contained impacted soil and groundwater.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	10/01/2002
Comments:	Report submitted.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	09/11/2014
Comments:	Final SAP reviewed and approved
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan w/ESD
Completed Date:	03/13/2015
Comments:	Final SRAW and TCRAW approved
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/30/2016
Comments:	Fieldwork for removal of arsenic and lead impacted soils on Phase I of Cornfield site completed. Contaminants were discovered during site construction activities.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2017
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Completion Report
Future Due Date:	2017
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 3 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LOS ANGELES	S105628645	GRATTS NEW PRIMARY CENTER	WEST 6TH STREET/BIXEL STREET	90017	ENVIROSTOR, SCH
LOS ANGELES	S105628641	ALTERNATE CENTRAL LOS ANGELES HS N	LUCAS AVENUE/MIRAMAR STREET	90026	ENVIROSTOR, SCH
LOS ANGELES	S107736103	CENTRAL LOS ANGELES MIDDLE SCHOOL	UNION AVENUE/WILSHIRE BOULEVAR	90017	ENVIROSTOR, SCH

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/07/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/25/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/12/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 57
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/16/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/02/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 08/26/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 49

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/01/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/27/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/20/2017
Number of Days to Update: 45

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 105

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/03/2017
Next Scheduled EDR Contact: 05/29/2017
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/06/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/03/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/03/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 04/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67
Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 79
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 12/09/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 40

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/16/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/20/2017
Number of Days to Update: 63

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/13/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 87
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/03/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 37

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 94

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/23/2017
Date Data Arrived at EDR: 02/24/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 77

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/26/2017
Number of Days to Update: 65

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 73

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/06/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 40

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/20/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 57

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 36

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/20/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 41

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 66

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/18/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 112

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/03/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 76

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 54

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 96

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/08/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/09/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 10/05/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/10/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 62

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/21/2017
Date Data Arrived at EDR: 03/23/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 47
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/21/2016
Date Made Active in Reports: 01/19/2017
Number of Days to Update: 59
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 33
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 14
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 11/16/2016
Date Data Arrived at EDR: 11/21/2016
Date Made Active in Reports: 01/19/2017
Number of Days to Update: 59

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/10/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 75

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 11/16/2016
Date Data Arrived at EDR: 11/21/2016
Date Made Active in Reports: 01/19/2017
Number of Days to Update: 59

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 12/13/2016
Date Data Arrived at EDR: 12/16/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 76

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 47
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 12/22/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 65
Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 55
Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 01/24/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 114
Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35
Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Semi-Annually

TRINITY COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 113

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/25/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 34

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/27/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 103

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/15/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/28/2016
Date Data Arrived at EDR: 11/03/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 42
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 01/03/2017
Number of Days to Update: 96
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

9836002375
418 FIRMIN ST
LOS ANGELES, CA 90026

TARGET PROPERTY COORDINATES

Latitude (North):	34.064796 - 34° 3' 53.27''
Longitude (West):	118.2536 - 118° 15' 12.96''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	384314.7
UTM Y (Meters):	3769854.8
Elevation:	426 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630741 HOLLYWOOD, CA
Version Date:	2012
East Map:	5630795 LOS ANGELES, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

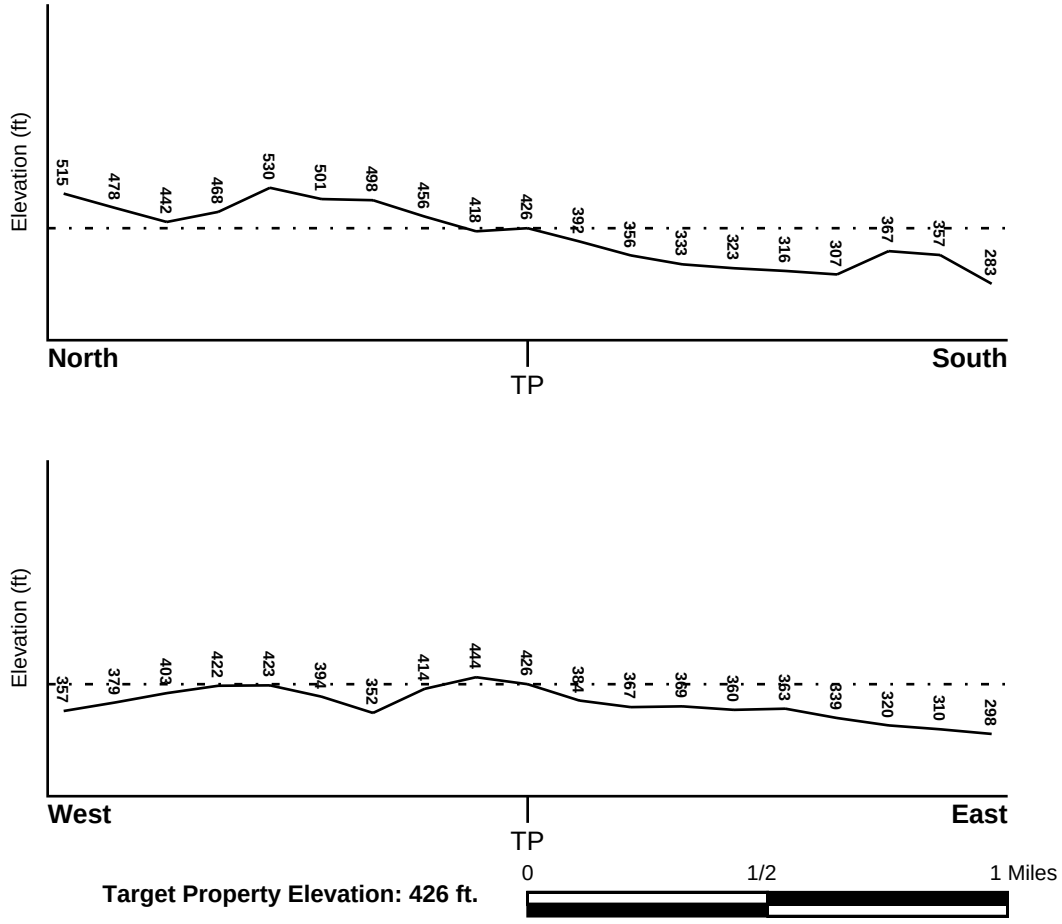
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1610F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1628F	FEMA FIRM Flood data
06037C1620F	FEMA FIRM Flood data
06037C1636F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
HOLLYWOOD	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Tertiary
Series:	Miocene
Code:	Tm *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	HAMBRIGHT
Soil Surface Texture:	gravelly - loam
Hydrologic Group:	Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 20 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	7 inches	gravelly - loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	7 inches	16 inches	very gravelly - loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
3	16 inches	20 inches	unweathered bedrock	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam
silty clay loam
shaly - clay loam
sandy loam
clay
loamy sand
clay loam

Surficial Soil Types: loam
silty clay loam
shaly - clay loam
sandy loam
clay
loamy sand
clay loam

Shallow Soil Types: silty clay

Deeper Soil Types: weathered bedrock
clay loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CA1910203	1/4 - 1/2 Mile SE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CAOG11000215835	0 - 1/8 Mile WNW
A2	CAOG11000215169	0 - 1/8 Mile SSW
A3	CAOG11000215834	0 - 1/8 Mile SE
A4	CAOG11000215695	0 - 1/8 Mile North
A5	CAOG11000215817	0 - 1/8 Mile East
A6	CAOG11000216128	0 - 1/8 Mile WNW
A7	CAOG11000216159	0 - 1/8 Mile NW
A8	CAOG11000215819	0 - 1/8 Mile SW
A9	CAOG11000215759	0 - 1/8 Mile South
A10	CAOG11000215696	0 - 1/8 Mile NNE
A11	CAOG11000215282	0 - 1/8 Mile South
A12	CAOG11000215697	0 - 1/8 Mile NNE
A13	CAOG11000215839	0 - 1/8 Mile SE
A14	CAOG11000215754	0 - 1/8 Mile SW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A15	CAOG11000216163	0 - 1/8 Mile NNW
A16	CAOG11000215818	0 - 1/8 Mile East
A17	CAOG11000215760	0 - 1/8 Mile SSE
A18	CAOG11000216131	0 - 1/8 Mile WNW
A19	CAOG11000216162	0 - 1/8 Mile NW
A20	CAOG11000215757	0 - 1/8 Mile SSW
A21	CAOG11000216157	0 - 1/8 Mile North
A22	CAOG11000216130	0 - 1/8 Mile WNW
A23	CAOG11000215752	0 - 1/8 Mile SSE
A24	CAOG11000215164	0 - 1/8 Mile WSW
A25	CAOG11000192986	0 - 1/8 Mile NE
A26	CAOG11000216167	0 - 1/8 Mile NNE
A27	CAOG11000215755	0 - 1/8 Mile South
A28	CAOG11000215214	0 - 1/8 Mile ESE
A29	CAOG11000192987	0 - 1/8 Mile SW
A30	CAOG11000216182	0 - 1/8 Mile ENE
A31	CAOG11000216179	0 - 1/8 Mile NW
A32	CAOG11000216172	0 - 1/8 Mile WNW
A33	CAOG11000216168	0 - 1/8 Mile ENE
A34	CAOG11000215317	0 - 1/8 Mile SE
A35	CAOG11000216164	0 - 1/8 Mile North
A36	CAOG11000215688	0 - 1/8 Mile WNW
A37	CAOG11000215374	0 - 1/8 Mile SE
A38	CAOG11000216166	0 - 1/8 Mile NE
A39	CAOG11000215756	0 - 1/8 Mile South
A40	CAOG11000215686	0 - 1/8 Mile West
A41	CAOG11000215785	0 - 1/8 Mile East
A42	CAOG11000215826	0 - 1/8 Mile SW
A43	CAOG11000215921	0 - 1/8 Mile WSW
A44	CAOG11000215753	0 - 1/8 Mile South
A45	CAOG11000192941	0 - 1/8 Mile SW
A46	CAOG11000215925	0 - 1/8 Mile SSW
B47	CAOG11000215786	0 - 1/8 Mile East
A48	CAOG11000216177	0 - 1/8 Mile West
B49	CAOG11000215587	0 - 1/8 Mile ENE
A50	CAOG11000215923	0 - 1/8 Mile WSW
C51	CAOG11000215931	0 - 1/8 Mile South
B52	CAOG11000215316	0 - 1/8 Mile SE
A53	CAOG11000215690	0 - 1/8 Mile WNW
B54	CAOG11000215787	0 - 1/8 Mile East
A55	CAOG11000215922	0 - 1/8 Mile WSW
C56	CAOG11000215930	0 - 1/8 Mile SSW
B57	CAOG11000215301	0 - 1/8 Mile SSE
A58	CAOG11000215687	0 - 1/8 Mile West
B59	CAOG11000215283	0 - 1/8 Mile SE
A60	CAOG11000216173	0 - 1/8 Mile WNW
C61	CAOG11000215827	0 - 1/8 Mile SW
62	CAOG11000216158	0 - 1/8 Mile NNE
C63	CAOG11000215927	0 - 1/8 Mile WSW
D64	CAOG11000215376	0 - 1/8 Mile West
D65	CAOG11000216170	0 - 1/8 Mile WNW
C66	CAOG11000192942	0 - 1/8 Mile SSW
B67	CAOG11000213807	0 - 1/8 Mile SSE
C68	CAOG11000215920	0 - 1/8 Mile SSW
D69	CAOG11000216176	0 - 1/8 Mile West
C70	CAOG11000215837	0 - 1/8 Mile SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C71	CAOG11000215833	0 - 1/8 Mile SW
B72	CAOG11000215789	0 - 1/8 Mile East
D73	CAOG11000213917	0 - 1/8 Mile WSW
C74	CAOG11000215928	0 - 1/8 Mile SSW
B75	CAOG11000215788	0 - 1/8 Mile East
C76	CAOG11000215929	0 - 1/8 Mile SSW
D77	CAOG11000215926	0 - 1/8 Mile West
B78	CAOG11000215790	0 - 1/8 Mile East
C79	CAOG11000215933	0 - 1/8 Mile South
B80	CAOG11000215191	0 - 1/8 Mile East
B81	CAOG11000215302	0 - 1/8 Mile SE
D82	CAOG11000216087	0 - 1/8 Mile West
C83	CAOG11000215832	0 - 1/8 Mile SW
C84	CAOG11000215932	0 - 1/8 Mile SSW
B85	CAOG11000215293	0 - 1/8 Mile SE
D86	CAOG11000216165	0 - 1/8 Mile WNW
D87	CAOG11000216175	0 - 1/8 Mile WNW
B88	CAOG11000213825	0 - 1/8 Mile East
C89	CAOG11000216021	0 - 1/8 Mile SSE
D90	CAOG11000216171	0 - 1/8 Mile WNW
D91	CAOG11000204853	0 - 1/8 Mile WSW
B92	CAOG11000215315	0 - 1/8 Mile SE
C93	CAOG11000215294	0 - 1/8 Mile South
D94	CAOG11000216169	0 - 1/8 Mile West
B95	CAOG11000215588	0 - 1/8 Mile ENE
D96	CAOG11000215836	0 - 1/8 Mile SW
D97	CAOG11000215924	0 - 1/8 Mile West
D98	CAOG11000216082	0 - 1/8 Mile West
C99	CAOG11000213781	0 - 1/8 Mile South
C100	CAOG11000215838	0 - 1/8 Mile SW
C101	CAOG11000216022	0 - 1/8 Mile South
C102	CAOG11000216161	0 - 1/8 Mile SSW
B103	CAOG11000213801	0 - 1/8 Mile ESE
E104	CAOG11000216216	0 - 1/8 Mile ENE
C105	CAOG11000216160	0 - 1/8 Mile SSW
F106	CAOG11000213805	1/8 - 1/4 Mile SW
D107	CAOG11000215804	1/8 - 1/4 Mile West
E108	CAOG11000216217	1/8 - 1/4 Mile ENE
B109	CAOG11000194210	1/8 - 1/4 Mile SE
B110	CAOG11000194211	1/8 - 1/4 Mile SE
D111	CAOG11000216086	1/8 - 1/4 Mile West
C112	CAOG11000216020	1/8 - 1/4 Mile South
B113	CAOG11000216914	1/8 - 1/4 Mile ENE
D114	CAOG11000215177	1/8 - 1/4 Mile WSW
D115	CAOG11000215803	1/8 - 1/4 Mile WSW
E116	CAOG11000215899	1/8 - 1/4 Mile ENE
F117	CAOG11000216220	1/8 - 1/4 Mile SSW
D118	CAOG11000216089	1/8 - 1/4 Mile West
B119	CAOG11000213782	1/8 - 1/4 Mile ESE
E120	CAOG11000213823	1/8 - 1/4 Mile ENE
D121	CAOG11000216129	1/8 - 1/4 Mile WSW
F122	CAOG11000215815	1/8 - 1/4 Mile SW
F123	CAOG11000192968	1/8 - 1/4 Mile SW
D124	CAOG11000216090	1/8 - 1/4 Mile West
E125	CAOG11000216047	1/8 - 1/4 Mile East
F126	CAOG11000216132	1/8 - 1/4 Mile WSW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
D127	CAOG11000216088	1/8 - 1/4 Mile West
F128	CAOG11000216219	1/8 - 1/4 Mile SSW
D129	CAOG11000216178	1/8 - 1/4 Mile West
F130	CAOG11000192961	1/8 - 1/4 Mile WSW
D131	CAOG11000215193	1/8 - 1/4 Mile West
F132	CAOG11000215816	1/8 - 1/4 Mile SW
F133	CAOG11000192969	1/8 - 1/4 Mile SW
G134	CAOG11000216174	1/8 - 1/4 Mile West
G135	CAOG11000216037	1/8 - 1/4 Mile West
F136	CAOG11000216427	1/8 - 1/4 Mile SW
E137	CAOG11000215900	1/8 - 1/4 Mile ENE
G138	CAOG11000215898	1/8 - 1/4 Mile West
F139	CAOG11000215744	1/8 - 1/4 Mile WSW
G140	CAOG11000216038	1/8 - 1/4 Mile West
F141	CAOG11000213778	1/8 - 1/4 Mile WSW
F142	CAOG11000213779	1/8 - 1/4 Mile SW
F143	CAOG11000216426	1/8 - 1/4 Mile SW
E144	CAOG11000215901	1/8 - 1/4 Mile ENE
G145	CAOG11000215889	1/8 - 1/4 Mile WSW
F146	CAOG11000215910	1/8 - 1/4 Mile SW
F147	CAOG11000215891	1/8 - 1/4 Mile WSW
F148	CAOG11000215745	1/8 - 1/4 Mile WSW
H149	CAOG11000215892	1/8 - 1/4 Mile WSW
G150	CAOG11000215303	1/8 - 1/4 Mile West
F151	CAOG11000215890	1/8 - 1/4 Mile WSW
F152	CAOG11000216039	1/8 - 1/4 Mile SW
G153	CAOG11000216136	1/8 - 1/4 Mile West
F154	CAOG11000215166	1/8 - 1/4 Mile SW
G155	CAOG11000215304	1/8 - 1/4 Mile West
G156	CAOG11000215296	1/8 - 1/4 Mile West
F157	CAOG11000192943	1/8 - 1/4 Mile SW
G158	CAOG11000215886	1/8 - 1/4 Mile WSW
F159	CAOG11000215911	1/8 - 1/4 Mile WSW
G160	CAOG11000215327	1/8 - 1/4 Mile West
G161	CAOG11000215323	1/8 - 1/4 Mile West
F162	CAOG11000215912	1/8 - 1/4 Mile SW
H163	CAOG11000215871	1/8 - 1/4 Mile WSW
G164	CAOG11000216271	1/8 - 1/4 Mile West
G165	CAOG11000216073	1/8 - 1/4 Mile WSW
G166	CAOG11000215322	1/8 - 1/4 Mile West
H167	CAOG11000192957	1/8 - 1/4 Mile WSW
H168	CAOG11000216075	1/8 - 1/4 Mile WSW
F169	CAOG11000215165	1/8 - 1/4 Mile SW
H170	CAOG11000216071	1/8 - 1/4 Mile WSW
G171	CAOG11000215326	1/8 - 1/4 Mile West
G172	CAOG11000215321	1/8 - 1/4 Mile West
H173	CAOG11000215746	1/8 - 1/4 Mile SW
G174	CAOG11000215325	1/8 - 1/4 Mile West
H175	CAOG11000216063	1/8 - 1/4 Mile WSW
I176	CAOG11000216050	1/8 - 1/4 Mile East
H177	CAOG11000215747	1/8 - 1/4 Mile SW
H178	CAOG11000192956	1/8 - 1/4 Mile SW
H179	CAOG11000192980	1/8 - 1/4 Mile WSW
H180	CAOG11000216072	1/8 - 1/4 Mile WSW
G181	CAOG11000192978	1/8 - 1/4 Mile WSW
G182	CAOG11000192974	1/8 - 1/4 Mile West

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
H183	CAOG11000215758	1/8 - 1/4 Mile SW
G184	CAOG11000192975	1/8 - 1/4 Mile West
G185	CAOG11000216410	1/8 - 1/4 Mile WSW
H186	CAOG11000216068	1/8 - 1/4 Mile WSW
G187	CAOG11000216242	1/8 - 1/4 Mile West
H188	CAOG11000215896	1/8 - 1/4 Mile WSW
H189	CAOG11000216074	1/8 - 1/4 Mile WSW
H190	CAOG11000215893	1/8 - 1/4 Mile WSW
H191	CAOG11000216408	1/8 - 1/4 Mile WSW
G192	CAOG11000216272	1/8 - 1/4 Mile West
G193	CAOG11000215324	1/8 - 1/4 Mile West
H194	CAOG11000216070	1/8 - 1/4 Mile WSW
G195	CAOG11000215329	1/8 - 1/4 Mile West
H196	CAOG11000216409	1/8 - 1/4 Mile WSW
H197	CAOG11000192981	1/8 - 1/4 Mile SW
I198	CAOG11000216048	1/8 - 1/4 Mile ENE
I199	CAOG11000216051	1/8 - 1/4 Mile East
I200	CAOG11000216049	1/8 - 1/4 Mile ENE
H201	CAOG11000192979	1/8 - 1/4 Mile WSW
H202	CAOG11000216066	1/8 - 1/4 Mile WSW
H203	CAOG11000216076	1/8 - 1/4 Mile WSW
G204	CAOG11000215328	1/8 - 1/4 Mile West
J205	CAOG11000216083	1/8 - 1/4 Mile West
I206	CAOG11000215212	1/8 - 1/4 Mile East
H207	CAOG11000215600	1/8 - 1/4 Mile WSW
G208	CAOG11000216270	1/8 - 1/4 Mile West
J209	CAOG11000215330	1/8 - 1/4 Mile West
H210	CAOG11000216142	1/8 - 1/4 Mile SW
J211	CAOG11000192950	1/8 - 1/4 Mile West
H212	CAOG11000216077	1/8 - 1/4 Mile WSW
H213	CAOG11000216079	1/8 - 1/4 Mile WSW
H214	CAOG11000192954	1/4 - 1/2 Mile WSW
J215	CAOG11000192949	1/4 - 1/2 Mile West
H216	CAOG11000216145	1/4 - 1/2 Mile SW
H217	CAOG11000215604	1/4 - 1/2 Mile WSW
H218	CAOG11000216078	1/4 - 1/2 Mile WSW
J219	CAOG11000215298	1/4 - 1/2 Mile West
H220	CAOG11000216140	1/4 - 1/2 Mile WSW
H221	CAOG11000192952	1/4 - 1/2 Mile WSW
J222	CAOG11000192990	1/4 - 1/2 Mile West
J223	CAOG11000216151	1/4 - 1/2 Mile West
K224	CAOG11000192955	1/4 - 1/2 Mile SW
J225	CAOG11000216152	1/4 - 1/2 Mile West
J226	CAOG11000216154	1/4 - 1/2 Mile West
K227	CAOG11000192953	1/4 - 1/2 Mile WSW
J228	CAOG11000216155	1/4 - 1/2 Mile WSW
J229	CAOG11000213787	1/4 - 1/2 Mile West
I230	CAOG11000216123	1/4 - 1/2 Mile East
J231	CAOG11000216144	1/4 - 1/2 Mile WSW
J232	CAOG11000215894	1/4 - 1/2 Mile West
J233	CAOG11000215895	1/4 - 1/2 Mile West
K234	CAOG11000216143	1/4 - 1/2 Mile WSW
J235	CAOG11000192985	1/4 - 1/2 Mile WSW
J236	CAOG11000216150	1/4 - 1/2 Mile West
J237	CAOG11000213788	1/4 - 1/2 Mile West
K238	CAOG11000216141	1/4 - 1/2 Mile WSW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
J239	CAOG11000216153	1/4 - 1/2 Mile West
L240	CAOG11000216312	1/4 - 1/2 Mile West
K241	CAOG11000216139	1/4 - 1/2 Mile WSW
M242	CAOG11000216122	1/4 - 1/2 Mile East
L243	CAOG11000216313	1/4 - 1/2 Mile West
L244	CAOG11000216149	1/4 - 1/2 Mile West
L245	CAOG11000216138	1/4 - 1/2 Mile WSW
M246	CAOG11000216121	1/4 - 1/2 Mile East
L247	CAOG11000211736	1/4 - 1/2 Mile West
N248	CAOG11000216137	1/4 - 1/2 Mile WSW
L249	CAOG11000215743	1/4 - 1/2 Mile West
250	CAOG11000216833	1/4 - 1/2 Mile South
M251	CAOG11000216124	1/4 - 1/2 Mile ENE
L252	CAOG11000215762	1/4 - 1/2 Mile West
L253	CAOG11000215897	1/4 - 1/2 Mile West
M254	CAOG11000216120	1/4 - 1/2 Mile ENE
M255	CAOG11000216119	1/4 - 1/2 Mile ENE
L256	CAOG11000215727	1/4 - 1/2 Mile West
L257	CAOG11000216148	1/4 - 1/2 Mile West
L258	CAOG11000215728	1/4 - 1/2 Mile West
N259	CAOG11000216146	1/4 - 1/2 Mile WSW
L260	CAOG11000215729	1/4 - 1/2 Mile West
M261	CAOG11000215607	1/4 - 1/2 Mile East
N262	CAOG11000216147	1/4 - 1/2 Mile WSW
M263	CAOG11000216118	1/4 - 1/2 Mile ENE
M264	CAOG11000189658	1/4 - 1/2 Mile ENE
M265	CAOG11000215609	1/4 - 1/2 Mile ENE
M266	CAOG11000189700	1/4 - 1/2 Mile ENE
N267	CAOG11000215934	1/4 - 1/2 Mile WSW
N268	CAOG11000213791	1/4 - 1/2 Mile WSW
N269	CAOG11000298901	1/4 - 1/2 Mile WSW
O270	CAOG11000213795	1/4 - 1/2 Mile West
L271	CAOG11000215683	1/4 - 1/2 Mile West
M272	CAOG11000215615	1/4 - 1/2 Mile East
L273	CAOG11000216042	1/4 - 1/2 Mile West
P274	CAOG11000215613	1/4 - 1/2 Mile ENE
O275	CAOG11000213785	1/4 - 1/2 Mile West
L276	CAOG11000215935	1/4 - 1/2 Mile West
N277	CAOG11000211737	1/4 - 1/2 Mile WSW
O278	CAOG11000215651	1/4 - 1/2 Mile West
L279	CAOG11000215653	1/4 - 1/2 Mile West
N280	CAOG11000192977	1/4 - 1/2 Mile WSW
M281	CAOG11000215621	1/4 - 1/2 Mile East
O282	CAOG11000215649	1/4 - 1/2 Mile West
O283	CAOG11000215936	1/4 - 1/2 Mile WSW
P284	CAOG11000215618	1/4 - 1/2 Mile ENE
O285	CAOG11000215684	1/4 - 1/2 Mile West
P286	CAOG11000215608	1/4 - 1/2 Mile ENE
Q287	CAOG11000215650	1/4 - 1/2 Mile West
O288	CAOG11000261671	1/4 - 1/2 Mile WSW
O289	CAOG11000215682	1/4 - 1/2 Mile West
Q290	CAOG11000216041	1/4 - 1/2 Mile West
N291	CAOG11000213792	1/4 - 1/2 Mile WSW
O292	CAOG11000215654	1/4 - 1/2 Mile West
O293	CAOG11000213796	1/4 - 1/2 Mile WSW
P294	CAOG11000215620	1/4 - 1/2 Mile East

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
N295	CAOG11000192973	1/4 - 1/2 Mile WSW
P296	CAOG11000215605	1/4 - 1/2 Mile ENE
O297	CAOG11000213786	1/4 - 1/2 Mile West
P298	CAOG11000215623	1/4 - 1/2 Mile East
N299	CAOG11000192976	1/4 - 1/2 Mile WSW
P300	CAOG11000215610	1/4 - 1/2 Mile ENE
P301	CAOG11000215619	1/4 - 1/2 Mile East
P302	CAOG11000200820	1/4 - 1/2 Mile ENE
O303	CAOG11000215813	1/4 - 1/2 Mile WSW
O304	CAOG11000215881	1/4 - 1/2 Mile WSW
P305	CAOG11000215617	1/4 - 1/2 Mile ENE
Q306	CAOG11000215884	1/4 - 1/2 Mile West
O307	CAOG11000216046	1/4 - 1/2 Mile West
Q308	CAOG11000215652	1/4 - 1/2 Mile West
O309	CAOG11000216045	1/4 - 1/2 Mile West
P310	CAOG11000216043	1/4 - 1/2 Mile ENE
P311	CAOG11000200819	1/4 - 1/2 Mile ENE
P312	CAOG11000200821	1/4 - 1/2 Mile ENE
R313	CAOG11000216321	1/4 - 1/2 Mile WSW
O314	CAOG11000216319	1/4 - 1/2 Mile WSW
P315	CAOG11000216044	1/4 - 1/2 Mile ENE
P316	CAOG11000215616	1/4 - 1/2 Mile ENE
S317	CAOG11000216134	1/4 - 1/2 Mile East
P318	CAOG11000216314	1/4 - 1/2 Mile East
S319	CAOG11000216133	1/4 - 1/2 Mile East
O320	CAOG11000215599	1/4 - 1/2 Mile West
Q321	CAOG11000215810	1/4 - 1/2 Mile West
S322	CAOG11000216315	1/4 - 1/2 Mile East
P323	CAOG11000215622	1/4 - 1/2 Mile ENE
S324	CAOG11000216135	1/4 - 1/2 Mile East
Q325	CAOG11000213794	1/4 - 1/2 Mile West
P326	CAOG11000215614	1/4 - 1/2 Mile ENE
P327	CAOG11000213906	1/4 - 1/2 Mile ENE
S328	CAOG11000216304	1/4 - 1/2 Mile East
P329	CAOG11000200818	1/4 - 1/2 Mile ENE
R330	CAOG11000216069	1/4 - 1/2 Mile WSW
O331	CAOG11000215598	1/4 - 1/2 Mile West
P332	CAOG11000215612	1/4 - 1/2 Mile ENE
S333	CAOG11000216303	1/4 - 1/2 Mile East
O334	CAOG11000215814	1/4 - 1/2 Mile West
S335	CAOG11000216317	1/4 - 1/2 Mile East
O336	CAOG11000216064	1/4 - 1/2 Mile WSW
S337	CAOG11000216318	1/4 - 1/2 Mile East
P338	CAOG11000213907	1/4 - 1/2 Mile ENE
O339	CAOG11000192951	1/4 - 1/2 Mile WSW
S340	CAOG11000216316	1/4 - 1/2 Mile East
P341	CAOG11000200817	1/4 - 1/2 Mile ENE
Q342	CAOG11000213793	1/4 - 1/2 Mile West
Q343	CAOG11000216296	1/4 - 1/2 Mile West
344	CAOG11000214315	1/4 - 1/2 Mile SSE
R345	CAOG11000192946	1/4 - 1/2 Mile WSW
Q346	CAOG11000213797	1/4 - 1/2 Mile West
O347	CAOG11000193990	1/4 - 1/2 Mile WSW
R348	CAOG11000215878	1/4 - 1/2 Mile WSW
Q349	CAOG11000215909	1/4 - 1/2 Mile West
S350	CAOG11000216183	1/4 - 1/2 Mile East

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
T351	CAOG11000215611	1/4 - 1/2 Mile ENE
U352	CAOG11000215845	1/4 - 1/2 Mile WSW
T353	CAOG11000200822	1/4 - 1/2 Mile ENE
T354	CAOG11000213908	1/4 - 1/2 Mile ENE
S355	CAOG11000215765	1/4 - 1/2 Mile East
U356	CAOG11000215699	1/4 - 1/2 Mile West
Q357	CAOG11000213789	1/4 - 1/2 Mile West
T358	CAOG11000215875	1/4 - 1/2 Mile ENE
Q359	CAOG11000213799	1/4 - 1/2 Mile West
U360	CAOG11000215590	1/4 - 1/2 Mile WSW
S361	CAOG11000215805	1/4 - 1/2 Mile East
U362	CAOG11000215589	1/4 - 1/2 Mile West
T363	CAOG11000216309	1/4 - 1/2 Mile ENE
U364	CAOG11000217141	1/4 - 1/2 Mile West
U365	CAOG11000215700	1/4 - 1/2 Mile WSW
U366	CAOG11000215905	1/4 - 1/2 Mile WSW
S367	CAOG11000215806	1/4 - 1/2 Mile East
U368	CAOG11000215913	1/4 - 1/2 Mile West
S369	CAOG11000216301	1/4 - 1/2 Mile East
T370	CAOG11000215876	1/4 - 1/2 Mile ENE
S371	CAOG11000215629	1/4 - 1/2 Mile East
T372	CAOG11000200827	1/4 - 1/2 Mile ENE
V373	CAOG11000215291	1/4 - 1/2 Mile West
W374	CAOG11000215874	1/4 - 1/2 Mile East
U375	CAOG11000192948	1/4 - 1/2 Mile West
U376	CAOG11000213798	1/4 - 1/2 Mile West
U377	CAOG11000215764	1/4 - 1/2 Mile WSW
T378	CAOG11000200828	1/4 - 1/2 Mile ENE
W379	CAOG11000213904	1/4 - 1/2 Mile East
U380	CAOG11000192945	1/4 - 1/2 Mile WSW
S381	CAOG11000216305	1/4 - 1/2 Mile East
W382	CAOG11000213905	1/4 - 1/2 Mile East
T383	CAOG11000200829	1/4 - 1/2 Mile ENE
V384	CAOG11000216210	1/2 - 1 Mile West
V385	CAOG11000213790	1/2 - 1 Mile West
U386	CAOG11000192982	1/2 - 1 Mile West
W387	CAOG11000213931	1/2 - 1 Mile East
U388	CAOG11000215846	1/2 - 1 Mile West
U389	CAOG11000215763	1/2 - 1 Mile West
W390	CAOG11000215631	1/2 - 1 Mile East
W391	CAOG11000215624	1/2 - 1 Mile East
V392	CAOG11000192958	1/2 - 1 Mile West
U393	CAOG11000215907	1/2 - 1 Mile West
T394	CAOG11000213918	1/2 - 1 Mile ENE
V395	CAOG11000192984	1/2 - 1 Mile West
U396	CAOG11000192960	1/2 - 1 Mile West
V397	CAOG11000216273	1/2 - 1 Mile West
V398	CAOG11000193982	1/2 - 1 Mile West
W399	CAOG11000213934	1/2 - 1 Mile East
W400	CAOG11000215689	1/2 - 1 Mile East
T401	CAOG11000216302	1/2 - 1 Mile ENE
U402	CAOG11000216065	1/2 - 1 Mile West
U403	CAOG11000215916	1/2 - 1 Mile WSW
W404	CAOG11000215625	1/2 - 1 Mile East
U405	CAOG11000216269	1/2 - 1 Mile West
T406	CAOG11000216306	1/2 - 1 Mile ENE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
W407	CAOG11000215628	1/2 - 1 Mile East
V408	CAOG11000194078	1/2 - 1 Mile West
V409	CAOG11000194077	1/2 - 1 Mile West
V410	CAOG11000194024	1/2 - 1 Mile West
V411	CAOG11000194023	1/2 - 1 Mile West
V412	CAOG11000194079	1/2 - 1 Mile West
V413	CAOG11000194025	1/2 - 1 Mile West
V414	CAOG11000216067	1/2 - 1 Mile West
V415	CAOG11000192959	1/2 - 1 Mile West
U416	CAOG11000215914	1/2 - 1 Mile WSW
V417	CAOG11000215908	1/2 - 1 Mile West
T418	CAOG11000215702	1/2 - 1 Mile ENE
419	CAOG11000215601	1/2 - 1 Mile WSW
W420	CAOG11000215639	1/2 - 1 Mile East
X421	CAOG11000215917	1/2 - 1 Mile WSW
W422	CAOG11000215626	1/2 - 1 Mile East
W423	CAOG11000215641	1/2 - 1 Mile East
V424	CAOG11000216291	1/2 - 1 Mile West
W425	CAOG11000213903	1/2 - 1 Mile ENE
W426	CAOG11000215627	1/2 - 1 Mile East
W427	CAOG11000215642	1/2 - 1 Mile East
X428	CAOG11000215915	1/2 - 1 Mile WSW
V429	CAOG11000216292	1/2 - 1 Mile West
X430	CAOG11000216193	1/2 - 1 Mile West
Y431	CAOG11000215698	1/2 - 1 Mile ENE
432	CAOG11000214162	1/2 - 1 Mile SW
W433	CAOG11000215636	1/2 - 1 Mile East
Z434	CAOG11000215632	1/2 - 1 Mile East
W435	CAOG11000215638	1/2 - 1 Mile East
Y436	CAOG11000215749	1/2 - 1 Mile ENE
X437	CAOG11000215919	1/2 - 1 Mile WSW
AA438	CAOG11000216293	1/2 - 1 Mile West
Z439	CAOG11000215637	1/2 - 1 Mile East
Z440	CAOG11000215640	1/2 - 1 Mile East
Y441	CAOG11000213901	1/2 - 1 Mile East
Y442	CAOG11000215873	1/2 - 1 Mile ENE
Y443	CAOG11000215594	1/2 - 1 Mile East
AA444	CAOG11000216295	1/2 - 1 Mile West
Y445	CAOG11000215633	1/2 - 1 Mile East
X446	CAOG11000215840	1/2 - 1 Mile West
X447	CAOG11000215877	1/2 - 1 Mile WSW
X448	CAOG11000216215	1/2 - 1 Mile WSW
AA449	CAOG11000216212	1/2 - 1 Mile West
Z450	CAOG11000215634	1/2 - 1 Mile East
Z451	CAOG11000213900	1/2 - 1 Mile East
Y452	CAOG11000215595	1/2 - 1 Mile ENE
Z453	CAOG11000215635	1/2 - 1 Mile East
AA454	CAOG11000216213	1/2 - 1 Mile West
AA455	CAOG11000215576	1/2 - 1 Mile West
Z456	CAOG11000215648	1/2 - 1 Mile East
Y457	CAOG11000215592	1/2 - 1 Mile ENE
Y458	CAOG11000215597	1/2 - 1 Mile East
X459	CAOG11000215828	1/2 - 1 Mile West
AA460	CAOG11000216211	1/2 - 1 Mile West
X461	CAOG11000215918	1/2 - 1 Mile WSW
Z462	CAOG11000215793	1/2 - 1 Mile East

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
X463	CAOG11000215829	1/2 - 1 Mile West
Y464	CAOG11000215158	1/2 - 1 Mile ENE
Z465	CAOG11000215647	1/2 - 1 Mile East
Z466	CAOG11000215800	1/2 - 1 Mile East
Y467	CAOG11000215159	1/2 - 1 Mile ENE
Z468	CAOG11000213940	1/2 - 1 Mile East
Y469	CAOG11000211744	1/2 - 1 Mile East
Y470	CAOG11000215575	1/2 - 1 Mile ENE
Z471	CAOG11000215802	1/2 - 1 Mile East
Z472	CAOG11000215796	1/2 - 1 Mile East
Z473	CAOG11000215797	1/2 - 1 Mile East
AA474	CAOG11000216108	1/2 - 1 Mile West
475	CAOG11000215130	1/2 - 1 Mile NE
Y476	CAOG11000215681	1/2 - 1 Mile ENE
Z477	CAOG11000215799	1/2 - 1 Mile East
AA478	CAOG11000216294	1/2 - 1 Mile West
AB479	CAOG11000216101	1/2 - 1 Mile East
AB480	CAOG11000211743	1/2 - 1 Mile East
Y481	CAOG11000211742	1/2 - 1 Mile ENE
AB482	CAOG11000216100	1/2 - 1 Mile East
AB483	CAOG11000213898	1/2 - 1 Mile East
AA484	CAOG11000216109	1/2 - 1 Mile West
AC485	CAOG11000211748	1/2 - 1 Mile ENE
Y486	CAOG11000211745	1/2 - 1 Mile ENE
AD487	CAOG11000216287	1/2 - 1 Mile WSW
AB488	CAOG11000213897	1/2 - 1 Mile East
AB489	CAOG11000216102	1/2 - 1 Mile East
AC490	CAOG11000213899	1/2 - 1 Mile ENE
AB491	CAOG11000215794	1/2 - 1 Mile East
AE492	CAOG11000216310	1/2 - 1 Mile West
AD493	CAOG11000215888	1/2 - 1 Mile WSW
AD494	CAOG11000216298	1/2 - 1 Mile West
AD495	CAOG11000216297	1/2 - 1 Mile West
AD496	CAOG11000216285	1/2 - 1 Mile West
AB497	CAOG11000213826	1/2 - 1 Mile East
AB498	CAOG11000215798	1/2 - 1 Mile East
AB499	CAOG11000213896	1/2 - 1 Mile ENE
AB500	CAOG11000213893	1/2 - 1 Mile East
AD501	CAOG11000216288	1/2 - 1 Mile West
AB502	CAOG11000215792	1/2 - 1 Mile East
AC503	CAOG11000211746	1/2 - 1 Mile ENE
AB504	CAOG11000215801	1/2 - 1 Mile East
AD505	CAOG11000216290	1/2 - 1 Mile WSW
AB506	CAOG11000213942	1/2 - 1 Mile East
AB507	CAOG11000213895	1/2 - 1 Mile ENE
AB508	CAOG11000213827	1/2 - 1 Mile East
AD509	CAOG11000216308	1/2 - 1 Mile WSW
AB510	CAOG11000213894	1/2 - 1 Mile East
AB511	CAOG11000213951	1/2 - 1 Mile East
AB512	CAOG11000213828	1/2 - 1 Mile East
AB513	CAOG11000215795	1/2 - 1 Mile East
AD514	CAOG11000215655	1/2 - 1 Mile West
AD515	CAOG11000216214	1/2 - 1 Mile West
AB516	CAOG11000215791	1/2 - 1 Mile East
AB517	CAOG11000213949	1/2 - 1 Mile East
AD518	CAOG11000213920	1/2 - 1 Mile West

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AE519	CAOG11000215583	1/2 - 1 Mile West
AD520	CAOG11000216084	1/2 - 1 Mile West
AD521	CAOG11000213921	1/2 - 1 Mile West
AE522	CAOG11000216127	1/2 - 1 Mile West
AB523	CAOG11000213950	1/2 - 1 Mile East
AD524	CAOG11000215730	1/2 - 1 Mile West
AC525	CAOG11000192962	1/2 - 1 Mile ENE
AD526	CAOG11000213800	1/2 - 1 Mile West
AB527	CAOG11000213948	1/2 - 1 Mile East
AD528	CAOG11000216307	1/2 - 1 Mile WSW
AB529	CAOG11000213803	1/2 - 1 Mile East
AE530	CAOG11000216126	1/2 - 1 Mile West
AB531	CAOG11000213892	1/2 - 1 Mile East
AF532	CAOG11000192963	1/2 - 1 Mile ENE
AG533	CAOG11000216085	1/2 - 1 Mile West
AB534	CAOG11000213829	1/2 - 1 Mile East
AE535	CAOG11000215585	1/2 - 1 Mile West
AD536	CAOG11000216434	1/2 - 1 Mile West
AF537	CAOG11000216248	1/2 - 1 Mile ENE
AG538	CAOG11000216299	1/2 - 1 Mile West
AF539	CAOG11000213830	1/2 - 1 Mile ENE
AH540	CAOG11000213891	1/2 - 1 Mile East
AG541	CAOG11000200694	1/2 - 1 Mile West
AG542	CAOG11000216125	1/2 - 1 Mile West
AF543	CAOG11000192964	1/2 - 1 Mile East
AG544	CAOG11000216289	1/2 - 1 Mile West
AF545	CAOG11000216247	1/2 - 1 Mile ENE
AF546	CAOG11000215596	1/2 - 1 Mile East
AH547	CAOG11000215154	1/2 - 1 Mile East
AG548	CAOG11000192983	1/2 - 1 Mile West
AH549	CAOG11000215155	1/2 - 1 Mile East
AG550	CAOG11000213923	1/2 - 1 Mile West
AF551	CAOG11000192966	1/2 - 1 Mile ENE
AF552	CAOG11000215591	1/2 - 1 Mile ENE
AG553	CAOG11000215581	1/2 - 1 Mile West
AF554	CAOG11000192965	1/2 - 1 Mile East
AG555	CAOG11000216277	1/2 - 1 Mile West
AF556	CAOG11000216246	1/2 - 1 Mile East
AG557	CAOG11000215742	1/2 - 1 Mile West
AF558	CAOG11000215593	1/2 - 1 Mile East
AG559	CAOG11000216278	1/2 - 1 Mile West
AG560	CAOG11000213924	1/2 - 1 Mile West
AG561	CAOG11000213922	1/2 - 1 Mile West
AH562	CAOG11000216052	1/2 - 1 Mile East
AH563	CAOG11000192970	1/2 - 1 Mile East
AF564	CAOG11000215568	1/2 - 1 Mile ENE
AH565	CAOG11000216053	1/2 - 1 Mile East
AF566	CAOG11000215570	1/2 - 1 Mile ENE
AG567	CAOG11000213925	1/2 - 1 Mile West
AF568	CAOG11000215571	1/2 - 1 Mile ENE
AG569	CAOG11000215784	1/2 - 1 Mile West
AF570	CAOG11000216245	1/2 - 1 Mile East
AF571	CAOG11000192967	1/2 - 1 Mile ENE
AG572	CAOG11000215584	1/2 - 1 Mile West
AH573	CAOG11000213804	1/2 - 1 Mile East
AI574	CAOG11000215573	1/2 - 1 Mile ENE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AF575	CAOG11000192972	1/2 - 1 Mile East
AF576	CAOG11000215572	1/2 - 1 Mile ENE
AG577	CAOG11000215656	1/2 - 1 Mile West
AG578	CAOG11000216276	1/2 - 1 Mile West
AF579	CAOG11000213919	1/2 - 1 Mile ENE
AF580	CAOG11000216243	1/2 - 1 Mile ENE
AJ581	CAOG11000215582	1/2 - 1 Mile West
AH582	CAOG11000192971	1/2 - 1 Mile East
AI583	CAOG11000215569	1/2 - 1 Mile ENE
AF584	CAOG11000213832	1/2 - 1 Mile ENE
AG585	CAOG11000216275	1/2 - 1 Mile West
AK586	CAOG11000215567	1/2 - 1 Mile East
AG587	CAOG11000215190	1/2 - 1 Mile West
AI588	CAOG11000213831	1/2 - 1 Mile ENE
AI589	CAOG11000216181	1/2 - 1 Mile ENE
AI590	CAOG11000216244	1/2 - 1 Mile ENE
AL591	CAOG11000215940	1/2 - 1 Mile West
AJ592	CAOG11000215577	1/2 - 1 Mile West
AI593	CAOG11000215732	1/2 - 1 Mile ENE
AK594	CAOG11000213886	1/2 - 1 Mile East
AJ595	CAOG11000216274	1/2 - 1 Mile West
AL596	CAOG11000215941	1/2 - 1 Mile WSW
AK597	CAOG11000213881	1/2 - 1 Mile East
AL598	CAOG11000215939	1/2 - 1 Mile West
AI599	CAOG11000216184	1/2 - 1 Mile ENE
AK600	CAOG11000215179	1/2 - 1 Mile East
AI601	CAOG11000216156	1/2 - 1 Mile ENE
AI602	CAOG11000215574	1/2 - 1 Mile ENE
AJ603	CAOG11000216040	1/2 - 1 Mile West
AJ604	CAOG11000215887	1/2 - 1 Mile West
AK605	CAOG11000213833	1/2 - 1 Mile East
AL606	CAOG11000215938	1/2 - 1 Mile West
AI607	CAOG11000213882	1/2 - 1 Mile ENE
AI608	CAOG11000216180	1/2 - 1 Mile ENE
AJ609	CAOG11000215883	1/2 - 1 Mile West
AK610	CAOG11000213880	1/2 - 1 Mile East
AJ611	CAOG11000215578	1/2 - 1 Mile West
AK612	CAOG11000213802	1/2 - 1 Mile East
AK613	CAOG11000213888	1/2 - 1 Mile East
AL614	CAOG11000215733	1/2 - 1 Mile West
AK615	CAOG11000213889	1/2 - 1 Mile East
AK616	CAOG11000213887	1/2 - 1 Mile East
AJ617	CAOG11000215603	1/2 - 1 Mile West
AI618	CAOG11000215645	1/2 - 1 Mile ENE
AI619	CAOG11000216115	1/2 - 1 Mile ENE
AJ620	CAOG11000216284	1/2 - 1 Mile West
AL621	CAOG11000215937	1/2 - 1 Mile West
AJ622	CAOG11000215602	1/2 - 1 Mile West
AK623	CAOG11000213883	1/2 - 1 Mile East
AK624	CAOG11000215168	1/2 - 1 Mile East
AI625	CAOG11000215644	1/2 - 1 Mile ENE
AK626	CAOG11000215646	1/2 - 1 Mile East
AK627	CAOG11000215906	1/2 - 1 Mile East
AL628	CAOG11000215879	1/2 - 1 Mile West
AK629	CAOG11000213890	1/2 - 1 Mile ENE
AJ630	CAOG11000216286	1/2 - 1 Mile West

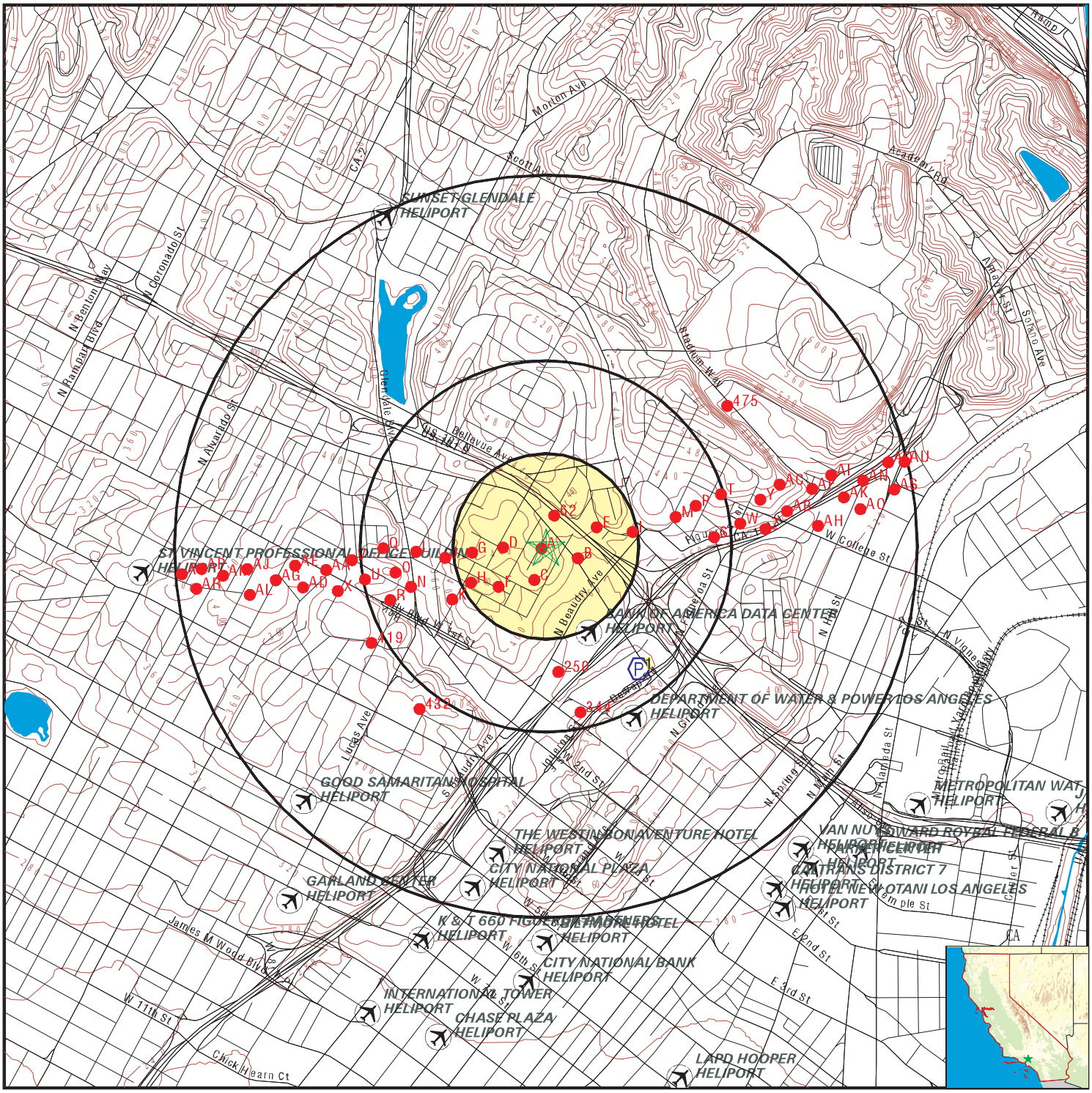
STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AJ631	CAOG11000216233	1/2 - 1 Mile West
AK632	CAOG11000215167	1/2 - 1 Mile East
AM633	CAOG11000216279	1/2 - 1 Mile West
AK634	CAOG11000213875	1/2 - 1 Mile East
AK635	CAOG11000215606	1/2 - 1 Mile East
AN636	CAOG11000215180	1/2 - 1 Mile ENE
AJ637	CAOG11000215579	1/2 - 1 Mile West
AK638	CAOG11000213927	1/2 - 1 Mile East
AM639	CAOG11000215580	1/2 - 1 Mile West
AL640	CAOG11000215885	1/2 - 1 Mile West
AN641	CAOG11000215643	1/2 - 1 Mile ENE
AN642	CAOG11000216218	1/2 - 1 Mile ENE
AO643	CAOG11000213936	1/2 - 1 Mile East
AM644	CAOG11000216283	1/2 - 1 Mile West
AN645	CAOG11000213884	1/2 - 1 Mile ENE
AN646	CAOG11000213876	1/2 - 1 Mile East
AN647	CAOG11000213873	1/2 - 1 Mile ENE
AO648	CAOG11000213930	1/2 - 1 Mile East
AN649	CAOG11000213878	1/2 - 1 Mile ENE
AN650	CAOG11000213929	1/2 - 1 Mile East
AN651	CAOG11000213871	1/2 - 1 Mile ENE
AN652	CAOG11000213928	1/2 - 1 Mile East
AN653	CAOG11000213870	1/2 - 1 Mile ENE
AM654	CAOG11000215903	1/2 - 1 Mile West
AN655	CAOG11000213877	1/2 - 1 Mile ENE
AN656	CAOG11000213926	1/2 - 1 Mile East
AN657	CAOG11000215738	1/2 - 1 Mile ENE
AM658	CAOG11000216428	1/2 - 1 Mile West
AM659	CAOG11000215880	1/2 - 1 Mile West
AN660	CAOG11000215162	1/2 - 1 Mile East
AN661	CAOG11000215811	1/2 - 1 Mile ENE
AN662	CAOG11000213879	1/2 - 1 Mile ENE
AM663	CAOG11000216266	1/2 - 1 Mile West
AN664	CAOG11000215812	1/2 - 1 Mile ENE
AN665	CAOG11000215163	1/2 - 1 Mile East
AM666	CAOG11000215882	1/2 - 1 Mile West
AM667	CAOG11000216268	1/2 - 1 Mile West
AN668	CAOG11000213933	1/2 - 1 Mile East
AM669	CAOG11000215902	1/2 - 1 Mile West
AN670	CAOG11000213932	1/2 - 1 Mile East
AP671	CAOG11000216267	1/2 - 1 Mile West
AN672	CAOG11000213866	1/2 - 1 Mile East
AN673	CAOG11000213902	1/2 - 1 Mile East
AP674	CAOG11000216265	1/2 - 1 Mile West
AN675	CAOG11000213916	1/2 - 1 Mile ENE
AM676	CAOG11000216320	1/2 - 1 Mile West
AN677	CAOG11000215740	1/2 - 1 Mile ENE
AP678	CAOG11000216264	1/2 - 1 Mile West
AP679	CAOG11000216263	1/2 - 1 Mile West
AQ680	CAOG11000216114	1/2 - 1 Mile ENE
AQ681	CAOG11000213865	1/2 - 1 Mile East
AP682	CAOG11000192947	1/2 - 1 Mile West
AR683	CAOG11000215731	1/2 - 1 Mile West
AP684	CAOG11000216194	1/2 - 1 Mile West
AS685	CAOG11000213863	1/2 - 1 Mile East
AS686	CAOG11000213856	1/2 - 1 Mile East

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AP687	CAOG11000215748	1/2 - 1 Mile West
AS688	CAOG11000213943	1/2 - 1 Mile East
AQ689	CAOG11000213840	1/2 - 1 Mile ENE
AQ690	CAOG11000213874	1/2 - 1 Mile ENE
AQ691	CAOG11000213867	1/2 - 1 Mile ENE
AS692	CAOG11000215782	1/2 - 1 Mile East
AP693	CAOG11000216432	1/2 - 1 Mile West
AS694	CAOG11000215783	1/2 - 1 Mile East
AP695	CAOG11000216429	1/2 - 1 Mile West
AP696	CAOG11000215825	1/2 - 1 Mile West
AQ697	CAOG11000213868	1/2 - 1 Mile ENE
AS698	CAOG11000213941	1/2 - 1 Mile East
AQ699	CAOG11000215735	1/2 - 1 Mile ENE
AQ700	CAOG11000213869	1/2 - 1 Mile ENE
AP701	CAOG11000216433	1/2 - 1 Mile West
AR702	CAOG11000215821	1/2 - 1 Mile West
AQ703	CAOG11000213864	1/2 - 1 Mile ENE
AS704	CAOG11000213944	1/2 - 1 Mile East
AQ705	CAOG11000216113	1/2 - 1 Mile ENE
AQ706	CAOG11000215736	1/2 - 1 Mile ENE
AP707	CAOG11000216407	1/2 - 1 Mile West
AS708	CAOG11000213835	1/2 - 1 Mile East
AQ709	CAOG11000216112	1/2 - 1 Mile ENE
AS710	CAOG11000213848	1/2 - 1 Mile East
AS711	CAOG11000213849	1/2 - 1 Mile East
AQ712	CAOG11000215741	1/2 - 1 Mile ENE
AS713	CAOG11000213947	1/2 - 1 Mile East
AS714	CAOG11000213850	1/2 - 1 Mile East
AP715	CAOG11000216403	1/2 - 1 Mile West
AR716	CAOG11000215822	1/2 - 1 Mile West
AQ717	CAOG11000215739	1/2 - 1 Mile ENE
AQ718	CAOG11000213909	1/2 - 1 Mile ENE
AP719	CAOG11000216404	1/2 - 1 Mile West
AS720	CAOG11000215150	1/2 - 1 Mile East
AP721	CAOG11000215830	1/2 - 1 Mile West
AS722	CAOG11000213847	1/2 - 1 Mile East
AQ723	CAOG11000213859	1/2 - 1 Mile ENE
AR724	CAOG11000213954	1/2 - 1 Mile West
AQ725	CAOG11000213836	1/2 - 1 Mile ENE
AT726	CAOG11000216311	1/2 - 1 Mile West
AT727	CAOG11000215831	1/2 - 1 Mile West
AS728	CAOG11000213858	1/2 - 1 Mile ENE
AQ729	CAOG11000213860	1/2 - 1 Mile ENE
AQ730	CAOG11000213861	1/2 - 1 Mile ENE
AS731	CAOG11000213851	1/2 - 1 Mile East
AQ732	CAOG11000213862	1/2 - 1 Mile ENE
AT733	CAOG11000213956	1/2 - 1 Mile West
AT734	CAOG11000215172	1/2 - 1 Mile West
AT735	CAOG11000216406	1/2 - 1 Mile West
AU736	CAOG11000213854	1/2 - 1 Mile ENE
AS737	CAOG11000213945	1/2 - 1 Mile East
AU738	CAOG11000213853	1/2 - 1 Mile ENE
AU739	CAOG11000213855	1/2 - 1 Mile ENE
AU740	CAOG11000213852	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 4943971.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	9836002375	CLIENT:	EFI Global Inc.
ADDRESS:	418 Firmin St Los Angeles CA 90026	CONTACT:	James Johnston
LAT/LONG:	34.064796 / 118.2536	INQUIRY #:	4943971.2s
		DATE:	May 22, 2017 11:41 am

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Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SE
1/4 - 1/2 Mile
Lower | **FRDS PWS** | **CA1910203**

Epa region:	09	State:	CA
Pwsid:	CA1910203		
Pwsname:	LOS ANGELES CWWD 40, R24, 27,33-PEARBLSM		
City served:	Not Reported	State served:	CA
Zip served:	Not Reported	Fips county:	06037
Status:	Active	Pop srvd:	9822
Pwssvcconn:	2768	Source:	Purch_surface_water
Pws type:	CWS	Owner:	Local_Govt
Contact:	ARIKI, ADAM		
Contactor gname:	ARIKI, ADAM		
Contact phone:	626-300-3300	Contact address1:	P.O. BOX 1460
Contact address2:	Not Reported	Contact city:	ALHAMBRA
Contact state:	CA	Contact zip:	91802-1460
Activity code:	A		

Facid:	112		
Facname:	BLEND WELL 27-3, 27-5, & 27-7 (NITRATE)		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	inorganics removal	Treatment process:	rapid mix

Facid:	16		
Facname:	COMBINED WELLS 27-2, 27-3 & 27-4 - CL2		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	gaseous chlorination, post

Facid:	3673		
Facname:	WELL 27-7 - CL2		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	hypochlorination, post

Facid:	6196		
Facname:	COMBINED WELLS 24-4 & 24-5 - CL2		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	gaseous chlorination, post

Facid:	6197		
Facname:	COMB. WELLS 27-3,27-5,& 27-7 CL2		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	gaseous chlorination, post

Facid:	CA1910203021		
Facname:	CHLORINATED, BLENDED WELLS 27-3 & 27-5		
Facility type:	Treatment_plant	Activity code:	I
Treatment obj:	disinfection	Treatment process:	gaseous chlorination, post
Treatment obj:	inorganics removal	Treatment process:	rapid mix

Location Information:

Name:	LOS ANGELES CWWD 40, R24, 27,33-PEARBLSM		
Pwstypcd:	CWS	Primsrccd:	SWP
Popserved:	9822		
Add1:	P.O. BOX 1460		
Add2:	Not Reported		
City:	ALHAMBRA	State:	CA
Zip:	91802-1460	Phone:	626-300-3300
Cityserv:	Not Reported	Cntyserv:	Los Angeles
Stateserv:	CA	Zipserv:	Not Reported

Enforcement Information:

Violation id:	316001	Orig cd:	S
Enf fy:	2003	Enf act date:	08/19/2003
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	316001	Orig cd:	S
Enf fy:	2003	Enf act date:	08/19/2003
Enf act detail:	St AO (w/o penalty) issued	Enf act cat:	Formal

Violations Information:

Violation id:	316001	Orig cd:	S
State:	CA	Viol fy:	2003
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	22		
Viol name:	MCL, Monthly (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	06/01/2003
Cmpedt:	06/30/2003		

PWS ID: CA1910203
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: LOS ANGELES CO WW DIST 24,27,33-PEARBLSM
ALHAMBRA, CA 91803

Addressee / Facility: Not Reported

Facility Latitude:	34 03 36	Facility Longitude:	118 14 54
City Served:	PEARBLOSSOM-LIT		
Treatment Class:	Mixed (treated and untreated)	Population:	7587

Violations information not reported.

ENFORCEMENT INFORMATION:

Truedate:	03/31/2009	Pwsid:	CA1910203
Pwsname:	LOS ANGELES CWWD 40, R24, 27,33-PEARBLSM		
Retpopsrvd:	9777	Pwstypecod:	C
Vioid:	0316001	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Monthly (TCR)		
Complperbe:	6/1/2003 0:00:00		
Complperen:	6/30/2003 0:00:00	Enfdate:	8/19/2003 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Truedate:	03/31/2009	Pwsid:	CA1910203
Pwsname:	LOS ANGELES CWWD 40, R24, 27,33-PEARBLSM		
Retpopsrvd:	9777	Pwstypecod:	C
Vioid:	0316001	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Monthly (TCR)		
Complperbe:	6/1/2003 0:00:00		
Complperen:	6/30/2003 0:00:00	Enfdate:	8/19/2003 0:00:00
Enf action:	State AO (w/o Penalty) Issued		
Violmeasur:	Not Reported		

System Name:	LOS ANGELES CWWD 40, R24, 27,33-PEARBLSM		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2003 0:00:00 - 6/30/2003 0:00:00		
Violation ID:	0316001		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00

System Name:	LOS ANGELES CWWD 40, R24, 27,33-PEARBLSM		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2003 0:00:00 - 6/30/2003 0:00:00		
Violation ID:	0316001		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported

CONTACT INFORMATION:

Name:	LOS ANGELES CWWD 40, R24, 27,33-PEARBLSM	Population:	9777
Contact:	Adam Ariki	Phone:	Not Reported
Address:	P.O. Box 1460		
Address 2:	Alhambra		
	CA, 91 62630		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

A1
WNW
0 - 1/8 Mile

OIL_GAS **CAOG11000215835**

District nun:	1	Api number:	03725670
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215835		

A2
SSW
0 - 1/8 Mile

OIL_GAS **CAOG11000215169**

District nun:	1	Api number:	03723873
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1-1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215169		

A3
SE
0 - 1/8 Mile

OIL_GAS **CAOG11000215834**

District nun:	1	Api number:	03725669
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215834		

A4
North **OIL_GAS** **CAOG11000215695**
0 - 1/8 Mile

District nun:	1	Api number:	03725529
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. V. Hall		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215695		

A5
East **OIL_GAS** **CAOG11000215817**
0 - 1/8 Mile

District nun:	1	Api number:	03725652
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. H. Harrison		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215817		

A6
WNW **OIL_GAS** **CAOG11000216128**
0 - 1/8 Mile

District nun:	1	Api number:	03725963
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Otto Ritzert		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ritzert	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216128		

A7
NW **OIL_GAS** **CAOG11000216159**
0 - 1/8 Mile

District nun:	1	Api number:	03725994
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216159		

Map ID
Direction
Distance

Database EDR ID Number

A8
SW
0 - 1/8 Mile

OIL_GAS **CAOG11000215819**

District nun:	1	Api number:	03725654
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215819		

A9
South
0 - 1/8 Mile

OIL_GAS **CAOG11000215759**

District nun:	1	Api number:	03725593
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215759		

A10
NNE
0 - 1/8 Mile

OIL_GAS **CAOG11000215696**

District nun:	1	Api number:	03725530
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. V. Hall		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215696		

A11
South **OIL_GAS** **CAOG11000215282**
0 - 1/8 Mile

District nun:	1	Api number:	03725021
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	L. A. Unified School Dist.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Unknown	Wellnumber:	1-1997
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215282		

A12
NNE **OIL_GAS** **CAOG11000215697**
0 - 1/8 Mile

District nun:	1	Api number:	03725531
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. V. Hall		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215697		

A13
SE
0 - 1/8 Mile

OIL_GAS **CAOG11000215839**

District nun:	1	Api number:	03725674
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215839		

A14
SW
0 - 1/8 Mile

OIL_GAS **CAOG11000215754**

District nun:	1	Api number:	03725588
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215754		

Map ID
Direction
Distance

Database EDR ID Number

A15
NNW
0 - 1/8 Mile

OIL_GAS **CAOG11000216163**

District nun:	1	Api number:	03725998
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216163		

A16
East
0 - 1/8 Mile

OIL_GAS **CAOG11000215818**

District nun:	1	Api number:	03725653
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. H. Harrison		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215818		

A17
SSE
0 - 1/8 Mile

OIL_GAS **CAOG11000215760**

District nun:	1	Api number:	03725594
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215760		

A18
WNW **OIL_GAS** **CAOG11000216131**
0 - 1/8 Mile

District nun:	1	Api number:	03725966
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Otto Ritzert		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ritzert	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216131		

A19
NW **OIL_GAS** **CAOG11000216162**
0 - 1/8 Mile

District nun:	1	Api number:	03725997
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216162		

A20
SSW
0 - 1/8 Mile

OIL_GAS **CAOG11000215757**

District nun:	1	Api number:	03725591
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215757		

A21
North
0 - 1/8 Mile

OIL_GAS **CAOG11000216157**

District nun:	1	Api number:	03725992
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216157		

Map ID
Direction
Distance

Database EDR ID Number

A22
WNW
0 - 1/8 Mile

OIL_GAS **CAOG11000216130**

District nun:	1	Api number:	03725965
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Otto Ritzert		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ritzert	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216130		

A23
SSE
0 - 1/8 Mile

OIL_GAS **CAOG11000215752**

District nun:	1	Api number:	03725586
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215752		

A24
WSW
0 - 1/8 Mile

OIL_GAS **CAOG11000215164**

District nun:	1	Api number:	03723868
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Otto Ritzert		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ritzert	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215164		

A25
NE **OIL_GAS** **CAOG11000192986**
0 - 1/8 Mile

District nun:	1	Api number:	03719041
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Penn Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	412.892
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Miller	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192986		

A26
NNE **OIL_GAS** **CAOG11000216167**
0 - 1/8 Mile

District nun:	1	Api number:	03726002
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216167		

A27
South
0 - 1/8 Mile

OIL_GAS **CAOG11000215755**

District nun:	1	Api number:	03725589
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215755		

A28
ESE
0 - 1/8 Mile

OIL_GAS **CAOG11000215214**

District nun:	1	Api number:	03723924
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Tierra Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215214		

Map ID
Direction
Distance

Database EDR ID Number

A29
SW
0 - 1/8 Mile

OIL_GAS **CAOG11000192987**

District nun:	1	Api number:	03719043
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Cal Cont Capital Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	450.865
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	1-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192987		

A30
ENE
0 - 1/8 Mile

OIL_GAS **CAOG11000216182**

District nun:	1	Api number:	03726017
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216182		

A31
NW
0 - 1/8 Mile

OIL_GAS **CAOG11000216179**

District nun:	1	Api number:	03726014
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216179		

A32
WNW **OIL_GAS** **CAOG11000216172**
0 - 1/8 Mile

District nun:	1	Api number:	03726007
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216172		

A33
ENE **OIL_GAS** **CAOG11000216168**
0 - 1/8 Mile

District nun:	1	Api number:	03726003
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216168		

A34
SE
0 - 1/8 Mile

OIL_GAS **CAOG11000215317**

District nun:	1	Api number:	03725103
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Tierra Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215317		

A35
North
0 - 1/8 Mile

OIL_GAS **CAOG11000216164**

District nun:	1	Api number:	03725999
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216164		

Map ID
Direction
Distance

Database EDR ID Number

A36
WNW
0 - 1/8 Mile

OIL_GAS **CAOG11000215688**

District nun:	1	Api number:	03725522
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. V. Hall		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215688		

A37
SE
0 - 1/8 Mile

OIL_GAS **CAOG11000215374**

District nun:	1	Api number:	03725167
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Combine Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215374		

A38
NE
0 - 1/8 Mile

OIL_GAS **CAOG11000216166**

District nun:	1	Api number:	03726001
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216166		

A39
South **OIL_GAS** **CAOG11000215756**
0 - 1/8 Mile

District nun:	1	Api number:	03725590
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215756		

A40
West **OIL_GAS** **CAOG11000215686**
0 - 1/8 Mile

District nun:	1	Api number:	03725520
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. V. Hall		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215686		

A41
East
0 - 1/8 Mile

OIL_GAS **CAOG11000215785**

District nun:	1	Api number:	03725619
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. Huntley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215785		

A42
SW
0 - 1/8 Mile

OIL_GAS **CAOG11000215826**

District nun:	1	Api number:	03725661
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215826		

Map ID
Direction
Distance

Database EDR ID Number

A43
WSW
0 - 1/8 Mile

OIL_GAS **CAOG11000215921**

District nun:	1	Api number:	03725756
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215921		

A44
South
0 - 1/8 Mile

OIL_GAS **CAOG11000215753**

District nun:	1	Api number:	03725587
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215753		

A45
SW
0 - 1/8 Mile

OIL_GAS **CAOG11000192941**

District nun:	1	Api number:	03718960
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Manley Energy Resources, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	425.212
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Patel	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192941		

A46
SSW **OIL_GAS** **CAOG11000215925**
0 - 1/8 Mile

District nun:	1	Api number:	03725760
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215925		

B47
East **OIL_GAS** **CAOG11000215786**
0 - 1/8 Mile

District nun:	1	Api number:	03725620
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. Huntley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215786		

A48
West
0 - 1/8 Mile

OIL_GAS **CAOG11000216177**

District nun:	1	Api number:	03726012
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	28
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216177		

B49
ENE
0 - 1/8 Mile

OIL_GAS **CAOG11000215587**

District nun:	1	Api number:	03725421
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Bayers & Roberts		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215587		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

A50
WSW
0 - 1/8 Mile

OIL_GAS **CAOG11000215923**

District nun:	1	Api number:	03725758
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215923		

C51
South
0 - 1/8 Mile

OIL_GAS **CAOG11000215931**

District nun:	1	Api number:	03725766
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215931		

B52
SE
0 - 1/8 Mile

OIL_GAS **CAOG11000215316**

District nun:	1	Api number:	03725100
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	M. Frazier		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215316		

A53
WNW **OIL_GAS** **CAOG11000215690**
0 - 1/8 Mile

District nun:	1	Api number:	03725524
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. V. Hall		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215690		

B54
East **OIL_GAS** **CAOG11000215787**
0 - 1/8 Mile

District nun:	1	Api number:	03725621
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. Huntley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215787		

A55
WSW
0 - 1/8 Mile

OIL_GAS **CAOG11000215922**

District nun:	1	Api number:	03725757
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215922		

C56
SSW
0 - 1/8 Mile

OIL_GAS **CAOG11000215930**

District nun:	1	Api number:	03725765
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215930		

Map ID
Direction
Distance

Database EDR ID Number

B57
SSE
0 - 1/8 Mile

OIL_GAS **CAOG11000215301**

District nun:	1	Api number:	03725063
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Combine Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215301		

A58
West
0 - 1/8 Mile

OIL_GAS **CAOG11000215687**

District nun:	1	Api number:	03725521
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. V. Hall		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215687		

B59
SE
0 - 1/8 Mile

OIL_GAS **CAOG11000215283**

District nun:	1	Api number:	03725022
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Young & Johnson		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	NO.1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215283		

A60
WNW **OIL_GAS** **CAOG11000216173**
0 - 1/8 Mile

District nun:	1	Api number:	03726008
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216173		

C61
SW **OIL_GAS** **CAOG11000215827**
0 - 1/8 Mile

District nun:	1	Api number:	03725662
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215827		

62
NNE **OIL_GAS** **CAOG11000216158**
0 - 1/8 Mile

District nun:	1	Api number:	03725993
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216158		

C63
WSW **OIL_GAS** **CAOG11000215927**
0 - 1/8 Mile

District nun:	1	Api number:	03725762
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215927		

Map ID
Direction
Distance

Database EDR ID Number

D64
West
0 - 1/8 Mile

OIL_GAS **CAOG11000215376**

District nun:	1	Api number:	03725169
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	27
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215376		

D65
WNW
0 - 1/8 Mile

OIL_GAS **CAOG11000216170**

District nun:	1	Api number:	03726005
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	24
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216170		

C66
SSW
0 - 1/8 Mile

OIL_GAS **CAOG11000192942**

District nun:	1	Api number:	03718961
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Vida Resources LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	433.124
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Patel	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192942		

B67
SSE **OIL_GAS** **CAOG11000213807**
0 - 1/8 Mile

District nun:	1	Api number:	03719042
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	L. A. Unified School Dist.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213807		

C68
SSW **OIL_GAS** **CAOG11000215920**
0 - 1/8 Mile

District nun:	1	Api number:	03725755
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215920		

D69
West
0 - 1/8 Mile

OIL_GAS **CAOG11000216176**

District nun:	1	Api number:	03726011
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216176		

C70
SW
0 - 1/8 Mile

OIL_GAS **CAOG11000215837**

District nun:	1	Api number:	03725672
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215837		

Map ID
Direction
Distance

Database EDR ID Number

C71
SW
0 - 1/8 Mile

OIL_GAS **CAOG11000215833**

District nun:	1	Api number:	03725668
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215833		

B72
East
0 - 1/8 Mile

OIL_GAS **CAOG11000215789**

District nun:	1	Api number:	03725623
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. Huntley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215789		

D73
WSW
0 - 1/8 Mile

OIL_GAS **CAOG11000213917**

District nun:	1	Api number:	03719167
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Carl B. Breig		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Browning	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213917		

C74
SSW **OIL_GAS** **CAOG11000215928**
0 - 1/8 Mile

District nun:	1	Api number:	03725763
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215928		

B75
East **OIL_GAS** **CAOG11000215788**
0 - 1/8 Mile

District nun:	1	Api number:	03725622
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. Huntley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215788		

C76
SSW
0 - 1/8 Mile

OIL_GAS **CAOG11000215929**

District nun:	1	Api number:	03725764
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215929		

D77
West
0 - 1/8 Mile

OIL_GAS **CAOG11000215926**

District nun:	1	Api number:	03725761
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215926		

Map ID
Direction
Distance

Database EDR ID Number

B78
East
0 - 1/8 Mile

OIL_GAS **CAOG11000215790**

District nun:	1	Api number:	03725624
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. Huntley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215790		

C79
South
0 - 1/8 Mile

OIL_GAS **CAOG11000215933**

District nun:	1	Api number:	03725768
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215933		

B80
East
0 - 1/8 Mile

OIL_GAS **CAOG11000215191**

District nun:	1	Api number:	03723895
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Richard E. Viertel		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215191		

B81
SE **OIL_GAS** **CAOG11000215302**
0 - 1/8 Mile

District nun:	1	Api number:	03725064
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215302		

D82
West **OIL_GAS** **CAOG11000216087**
0 - 1/8 Mile

District nun:	1	Api number:	03725922
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Midland Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216087		

C83
SW
0 - 1/8 Mile

OIL_GAS **CAOG11000215832**

District nun:	1	Api number:	03725667
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215832		

C84
SSW
0 - 1/8 Mile

OIL_GAS **CAOG11000215932**

District nun:	1	Api number:	03725767
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215932		

Map ID
Direction
Distance

Database EDR ID Number

B85
SE
0 - 1/8 Mile

OIL_GAS **CAOG11000215293**

District nun:	1	Api number:	03725048
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215293		

D86
WNW
0 - 1/8 Mile

OIL_GAS **CAOG11000216165**

District nun:	1	Api number:	03726000
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216165		

D87
WNW
0 - 1/8 Mile

OIL_GAS **CAOG11000216175**

District nun:	1	Api number:	03726010
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216175		

B88
East **OIL_GAS** **CAOG11000213825**
0 - 1/8 Mile

District nun:	1	Api number:	03719075
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	G. N. Bray		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213825		

C89
SSE **OIL_GAS** **CAOG11000216021**
0 - 1/8 Mile

District nun:	1	Api number:	03725856
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	L. A. R. R. Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216021		

D90
WNW **OIL_GAS** **CAOG11000216171**
0 - 1/8 Mile

District nun:	1	Api number:	03726006
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	23
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216171		

D91
WSW **OIL_GAS** **CAOG11000204853**
0 - 1/8 Mile

District nun:	1	Api number:	03705695
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Herlinda H. Gallegos		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Linda	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000204853		

Map ID
Direction
Distance

Database EDR ID Number

B92
SE
0 - 1/8 Mile

OIL_GAS **CAOG11000215315**

District nun:	1	Api number:	03725099
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215315		

C93
South
0 - 1/8 Mile

OIL_GAS **CAOG11000215294**

District nun:	1	Api number:	03725049
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	L. A. Unified School Dist.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Unknown	Wellnumber:	2-1997
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215294		

D94
West
0 - 1/8 Mile

OIL_GAS **CAOG11000216169**

District nun:	1	Api number:	03726004
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216169		

B95
ENE **OIL_GAS** **CAOG11000215588**
0 - 1/8 Mile

District nun:	1	Api number:	03725422
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Bayers & Roberts		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215588		

D96
SW **OIL_GAS** **CAOG11000215836**
0 - 1/8 Mile

District nun:	1	Api number:	03725671
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215836		

D97
West
0 - 1/8 Mile

OIL_GAS **CAOG11000215924**

District nun:	1	Api number:	03725759
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215924		

D98
West
0 - 1/8 Mile

OIL_GAS **CAOG11000216082**

District nun:	1	Api number:	03725917
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Midland Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216082		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

C99
South
0 - 1/8 Mile

OIL_GAS **CAOG11000213781**

District nun:	1	Api number:	03718974
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Kenneth & Katherine Manley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Beaudry Plaza Co	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213781		

C100
SW
0 - 1/8 Mile

OIL_GAS **CAOG11000215838**

District nun:	1	Api number:	03725673
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215838		

C101
South
0 - 1/8 Mile

OIL_GAS **CAOG11000216022**

District nun:	1	Api number:	03725857
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	L. A. R. R. Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216022		

C102
SSW **OIL_GAS** **CAOG11000216161**
0 - 1/8 Mile

District nun:	1	Api number:	03725996
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216161		

B103
ESE **OIL_GAS** **CAOG11000213801**
0 - 1/8 Mile

District nun:	1	Api number:	03719001
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	LA Land Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213801		

E104
ENE **OIL_GAS** **CAOG11000216216**
0 - 1/8 Mile

District nun:	1	Api number:	03726051
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	A. D. Reese		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216216		

C105
SSW **OIL_GAS** **CAOG11000216160**
0 - 1/8 Mile

District nun:	1	Api number:	03725995
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216160		

Map ID
Direction
Distance

Database EDR ID Number

F106
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000213805**

District nun:	1	Api number:	03719030
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Manley Energy Resources, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213805		

D107
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215804**

District nun:	1	Api number:	03725638
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Frank Davis		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215804		

E108
ENE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216217**

District nun:	1	Api number:	03726052
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	A. D. Reese		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216217		

B109
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000194210**

District nun:	1	Api number:	03725043
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	L. A. Unified School Dist.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	365.626
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42208049.ssf		
Leasename:	LAUSD	Wellnumber:	1B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	1029		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOB
Site id:	CAOG11000194210		

B110
SE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000194211**

District nun:	1	Api number:	03725043
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	L. A. Unified School Dist.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	365.626
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	42208049.ssf		
Leasename:	LAUSD	Wellnumber:	1B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	1029		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOB
Site id:	CAOG11000194211		

D111
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216086**

District nun:	1	Api number:	03725921
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Midland Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216086		

C112
South
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216020**

District nun:	1	Api number:	03725855
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	L. A. R. R. Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216020		

Map ID
Direction
Distance

Database EDR ID Number

B113
ENE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216914**

District nun:	1	Api number:	03726767
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Robst		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000216914		

D114
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215177**

District nun:	1	Api number:	03723881
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. M. Spaulding		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215177		

D115
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215803**

District nun:	1	Api number:	03725637
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Frank Davis		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215803		

E116
ENE **OIL_GAS** **CAOG11000215899**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725734
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	O. McKernan		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215899		

F117
SSW **OIL_GAS** **CAOG11000216220**
1/8 - 1/4 Mile

District nun:	1	Api number:	03726056
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Rommell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216220		

D118
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216089**

District nun:	1	Api number:	03725924
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Midland Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216089		

B119
ESE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000213782**

District nun:	1	Api number:	03718975
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Kenneth & Katherine Manley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Beaudry Plaza Co	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213782		

Map ID
Direction
Distance

Database EDR ID Number

E120
ENE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000213823**

District nun:	1	Api number:	03719073
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	W. H. Andrews		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213823		

D121
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216129**

District nun:	1	Api number:	03725964
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Otto Ritzert		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ritzert	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216129		

F122
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215815**

District nun:	1	Api number:	03725650
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. B. Carter		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215815		

F123
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192968**

District nun:	1	Api number:	03719020
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Cal Cont Capital Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	415.143
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207229.ssf		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192968		

D124
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216090**

District nun:	1	Api number:	03725925
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Midland Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216090		

E125
East
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216047**

District nun:	1	Api number:	03725882
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	M. & M. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216047		

F126
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216132**

District nun:	1	Api number:	03725967
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Otto Ritzert		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ritzert	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216132		

Map ID
Direction
Distance

Database EDR ID Number

D127
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216088**

District nun:	1	Api number:	03725923
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Midland Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216088		

F128
SSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216219**

District nun:	1	Api number:	03726055
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Rommell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216219		

D129
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216178**

District nun:	1	Api number:	03726013
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	28A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216178		

F130
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192961**

District nun:	1	Api number:	03719011
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Philip H. McAlmond		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	434.751
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	McAlmond	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192961		

D131
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215193**

District nun:	1	Api number:	03723897
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Little Napoleon	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215193		

F132
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215816**

District nun:	1	Api number:	03725651
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. B. Carter		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215816		

F133
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192969**

District nun:	1	Api number:	03719021
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Cal Cont Capital Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	437.786
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192969		

Map ID
Direction
Distance

Database EDR ID Number

G134
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216174**

District nun:	1	Api number:	03726009
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	27A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216174		

G135
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216037**

District nun:	1	Api number:	03725872
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Little Napoleon Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216037		

F136
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216427**

District nun:	1	Api number:	03726263
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Yankee Girl Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216427		

E137
ENE **OIL_GAS** **CAOG11000215900**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725735
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	O. McKernan		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215900		

G138
West **OIL_GAS** **CAOG11000215898**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725733
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	J. Korber		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215898		

F139
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215744**

District nun:	1	Api number:	03725578
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Crown Oil Company		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215744		

G140
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216038**

District nun:	1	Api number:	03725873
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Little Napoleon Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216038		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

F141
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000213778**

District nun:	1	Api number:	03718966
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Mary E. Connolly		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	McKeon	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213778		

F142
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000213779**

District nun:	1	Api number:	03718967
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Mary E. Connolly		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	McKeon	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000213779		

F143
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216426**

District nun:	1	Api number:	03726262
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Yankee Girl Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216426		

E144
ENE **OIL_GAS** **CAOG11000215901**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725736
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	O. McKernan		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215901		

G145
WSW **OIL_GAS** **CAOG11000215889**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725724
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	John Alton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215889		

F146
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215910**

District nun:	1	Api number:	03725745
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Keating Est.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215910		

F147
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215891**

District nun:	1	Api number:	03725726
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	John Alton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215891		

Map ID
Direction
Distance

Database EDR ID Number

F148
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215745**

District nun:	1	Api number:	03725579
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Crown Oil Company		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215745		

H149
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215892**

District nun:	1	Api number:	03725727
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	John Alton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215892		

G150
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215303**

District nun:	1	Api number:	03725065
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	29
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215303		

F151
WSW **OIL_GAS** **CAOG11000215890**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725725
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	John Alton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215890		

F152
SW **OIL_GAS** **CAOG11000216039**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725874
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Little Napoleon Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216039		

G153
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216136**

District nun:	1	Api number:	03725971
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Pacific Union Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216136		

F154
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215166**

District nun:	1	Api number:	03723870
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Otto Ritzert		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ritzert	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215166		

Map ID
Direction
Distance

Database EDR ID Number

G155
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215304**

District nun:	1	Api number:	03725066
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Ventura Consolidated Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215304		

G156
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215296**

District nun:	1	Api number:	03725057
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215296		

F157
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192943**

District nun:	1	Api number:	03718965
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Manley Energy Resources, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	447.629
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	MOC	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192943		

G158
WSW **OIL_GAS** **CAOG11000215886**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725721
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215886		

F159
WSW **OIL_GAS** **CAOG11000215911**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725746
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Keating Est.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215911		

G160
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215327**

District nun:	1	Api number:	03725115
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	M. Manley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215327		

G161
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215323**

District nun:	1	Api number:	03725111
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Keating Est.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215323		

Map ID
Direction
Distance

Database EDR ID Number

F162
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215912**

District nun:	1	Api number:	03725747
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Keating Est.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215912		

H163
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215871**

District nun:	1	Api number:	03725706
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Beck & Hollingsworth		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215871		

G164
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216271**

District nun:	1	Api number:	03726107
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216271		

G165
WSW **OIL_GAS** **CAOG11000216073**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725908
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216073		

G166
West **OIL_GAS** **CAOG11000215322**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725110
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Keating Est.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215322		

H167
WSW **OIL_GAS** **CAOG11000192957**
1/8 - 1/4 Mile

District nun:	1	Api number:	03719007
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilbert & Louis Moret		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	454.716
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Moret	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192957		

H168
WSW **OIL_GAS** **CAOG11000216075**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725910
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000216075		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

F169
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215165**

District nun:	1	Api number:	03723869
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Otto Ritzert		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ritzert	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215165		

H170
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216071**

District nun:	1	Api number:	03725906
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216071		

G171
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215326**

District nun:	1	Api number:	03725114
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	M. Manley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215326		

G172
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215321**

District nun:	1	Api number:	03725109
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Keating Est.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215321		

H173
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215746**

District nun:	1	Api number:	03725580
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Crown Oil Company		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215746		

G174
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215325**

District nun:	1	Api number:	03725113
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	M. Manley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215325		

H175
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216063**

District nun:	1	Api number:	03725898
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216063		

Map ID
Direction
Distance

Database EDR ID Number

I176
East
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216050**

District nun:	1	Api number:	03725885
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	M. & M. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216050		

H177
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215747**

District nun:	1	Api number:	03725581
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Crown Oil Company		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215747		

H178
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192956**

District nun:	1	Api number:	03719006
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Circular Holdings, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	460.189
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192956		

H179
WSW **OIL_GAS** **CAOG11000192980**
1/8 - 1/4 Mile

District nun:	1	Api number:	03719034
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Manley Energy Resources, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	441.843
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	MOC	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192980		

H180
WSW **OIL_GAS** **CAOG11000216072**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725907
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216072		

G181
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192978**

District nun:	1	Api number:	03719032
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Manley Energy Resources, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	445.195
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	MOC	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192978		

G182
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192974**

District nun:	1	Api number:	03719027
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Courtland Cty. Lights Assoc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	430.942
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192974		

Map ID
Direction
Distance

Database EDR ID Number

H183
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215758**

District nun:	1	Api number:	03725592
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Dividend Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1-B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215758		

G184
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192975**

District nun:	1	Api number:	03719028
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Courtland Cty. Lights Assoc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	442.36
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192975		

G185
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216410**

District nun:	1	Api number:	03726246
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Whittier Grande Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000216410		

H186
WSW **OIL_GAS** **CAOG11000216068**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725903
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216068		

G187
West **OIL_GAS** **CAOG11000216242**
1/8 - 1/4 Mile

District nun:	1	Api number:	03726078
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Southwestern Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216242		

H188
WSW **OIL_GAS** **CAOG11000215896**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725731
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Mrs. J. Alderson		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215896		

H189
WSW **OIL_GAS** **CAOG11000216074**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725909
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000216074		

Map ID
Direction
Distance

Database EDR ID Number

H190
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215893**

District nun:	1	Api number:	03725728
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Mrs. J. Alderson		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215893		

H191
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216408**

District nun:	1	Api number:	03726244
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Whittier Grande Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216408		

G192
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216272**

District nun:	1	Api number:	03726108
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	27
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216272		

G193
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215324**

District nun:	1	Api number:	03725112
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	M. Manley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215324		

H194
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216070**

District nun:	1	Api number:	03725905
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216070		

G195
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215329**

District nun:	1	Api number:	03725117
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	M. Manley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215329		

H196
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216409**

District nun:	1	Api number:	03726245
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Whittier Grande Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216409		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

H197
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192981**

District nun:	1	Api number:	03719035
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Manley Energy Resources, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	452.674
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	MOC	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192981		

I198
ENE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216048**

District nun:	1	Api number:	03725883
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	M. & M. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216048		

I199
East
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216051**

District nun:	1	Api number:	03725886
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	M. & M. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216051		

I200
ENE **OIL_GAS** **CAOG11000216049**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725884
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	M. & M. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216049		

H201
WSW **OIL_GAS** **CAOG11000192979**
1/8 - 1/4 Mile

District nun:	1	Api number:	03719033
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Manley Energy Resources, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	442.419
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	42206108.ssf		
Leasename:	MOC	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192979		

H202
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216066**

District nun:	1	Api number:	03725901
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216066		

H203
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216076**

District nun:	1	Api number:	03725911
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216076		

Map ID
Direction
Distance

Database EDR ID Number

G204
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215328**

District nun:	1	Api number:	03725116
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	M. Manley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215328		

J205
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216083**

District nun:	1	Api number:	03725918
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Midland Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216083		

I206
East
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215212**

District nun:	1	Api number:	03723921
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Marland Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	Unknown
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215212		

H207
WSW **OIL_GAS** **CAOG11000215600**
1/8 - 1/4 Mile

District nun:	1	Api number:	03725434
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Burlington Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215600		

G208
West **OIL_GAS** **CAOG11000216270**
1/8 - 1/4 Mile

District nun:	1	Api number:	03726106
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	28
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216270		

J209
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000215330**

District nun:	1	Api number:	03725118
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	M. Manley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215330		

H210
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216142**

District nun:	1	Api number:	03725977
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216142		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

J211
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000192950**

District nun:	1	Api number:	03718991
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Courtland Cty. Lights Assoc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	407.995
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Ker Oil	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192950		

H212
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216077**

District nun:	1	Api number:	03725912
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216077		

H213
WSW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000216079**

District nun:	1	Api number:	03725914
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216079		

H214
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192954**

District nun:	1	Api number:	03719004
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	L. A. Unified School Dist.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	439.578
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207229.ssf		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192954		

J215
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192949**

District nun:	1	Api number:	03718990
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Courtland Cty. Lights Assoc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	406.582
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	42206108.ssf		
Leasename:	Ker Oil	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192949		

H216
SW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216145**

District nun:	1	Api number:	03725980
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216145		

H217
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215604**

District nun:	1	Api number:	03725438
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Burlington Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215604		

Map ID
Direction
Distance

Database EDR ID Number

H218
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216078**

District nun:	1	Api number:	03725913
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216078		

J219
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215298**

District nun:	1	Api number:	03725059
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Courtland Cty. Lights Assoc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	F. Davies	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215298		

H220
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216140**

District nun:	1	Api number:	03725975
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216140		

H221
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192952**

District nun:	1	Api number:	03719002
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	L. A. Unified School Dist.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	437.866
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192952		

J222
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192990**

District nun:	1	Api number:	03719064
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Courtland Cty. Lights Assoc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	414.8
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	42206108.ssf		
Leasename:	Jay Kern	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192990		

J223
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216151**

District nun:	1	Api number:	03725986
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Morrell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216151		

K224
SW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192955**

District nun:	1	Api number:	03719005
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	L. A. Unified School Dist.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	434.379
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192955		

Map ID
Direction
Distance

Database EDR ID Number

J225
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216152**

District nun:	1	Api number:	03725987
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Morrell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216152		

J226
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216154**

District nun:	1	Api number:	03725989
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Morrell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216154		

K227
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192953**

District nun:	1	Api number:	03719003
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	L. A. Unified School Dist.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	432.361
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192953		

J228
WSW **OIL_GAS** **CAOG11000216155**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725990
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Morrell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216155		

J229
West **OIL_GAS** **CAOG11000213787**
1/4 - 1/2 Mile

District nun:	1	Api number:	03718982
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Andrew Lin		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Burson	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213787		

I230
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216123**

District nun:	1	Api number:	03725958
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Oceanic Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216123		

J231
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216144**

District nun:	1	Api number:	03725979
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216144		

Map ID
Direction
Distance

Database EDR ID Number

J232
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215894**

District nun:	1	Api number:	03725729
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Mrs. J. Alderson		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215894		

J233
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215895**

District nun:	1	Api number:	03725730
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Mrs. J. Alderson		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215895		

K234
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216143**

District nun:	1	Api number:	03725978
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216143		

J235
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192985**

District nun:	1	Api number:	03719040
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Manley Energy Resources, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	377.511
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	MOC	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192985		

J236
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216150**

District nun:	1	Api number:	03725985
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Morrell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216150		

J237
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213788**

District nun:	1	Api number:	03718983
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Andrew Lin		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Burson	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213788		

K238
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216141**

District nun:	1	Api number:	03725976
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216141		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

J239
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216153**

District nun:	1	Api number:	03725988
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Morrell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216153		

L240
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216312**

District nun:	1	Api number:	03726148
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	W. Dryden		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216312		

K241
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216139**

District nun:	1	Api number:	03725974
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216139		

M242
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216122**

District nun:	1	Api number:	03725957
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Oceanic Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216122		

L243
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216313**

District nun:	1	Api number:	03726149
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	W. Dryden		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216313		

L244
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216149**

District nun:	1	Api number:	03725984
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Morrell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216149		

L245
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216138**

District nun:	1	Api number:	03725973
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216138		

Map ID
Direction
Distance

Database EDR ID Number

M246
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216121**

District nun:	1	Api number:	03725956
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Oceanic Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216121		

L247
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000211736**

District nun:	1	Api number:	03716576
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. G. Burke		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	U-13 Community	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211736		

N248
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216137**

District nun:	1	Api number:	03725972
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216137		

L249
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215743**

District nun:	1	Api number:	03725577
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Continental Oil Company		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215743		

250
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216833**

District nun:	1	Api number:	03726708
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Allison & Barlow		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	28
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000216833		

M251
ENE **OIL_GAS** **CAOG11000216124**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725959
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Oceanic Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216124		

L252
West **OIL_GAS** **CAOG11000215762**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725596
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Doheny & Common		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Discovery Well Central Area 1892	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215762		

Map ID
Direction
Distance

Database EDR ID Number

L253
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215897**

District nun:	1	Api number:	03725732
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	John Charters		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215897		

M254
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216120**

District nun:	1	Api number:	03725955
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Oceanic Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216120		

M255
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216119**

District nun:	1	Api number:	03725954
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Oceanic Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216119		

L256
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215727**

District nun:	1	Api number:	03725561
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Combined Oil & Land Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215727		

L257
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216148**

District nun:	1	Api number:	03725983
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216148		

L258
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215728**

District nun:	1	Api number:	03725562
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Combined Oil & Land Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215728		

N259
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216146**

District nun:	1	Api number:	03725981
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216146		

Map ID
Direction
Distance

Database EDR ID Number

L260
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215729**

District nun:	1	Api number:	03725563
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Combined Oil & Land Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215729		

M261
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215607**

District nun:	1	Api number:	03725441
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	116
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215607		

N262
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216147**

District nun:	1	Api number:	03725982
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Park Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216147		

M263
ENE **OIL_GAS** **CAOG11000216118**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725953
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Oceanic Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216118		

M264
ENE **OIL_GAS** **CAOG11000189658**
1/4 - 1/2 Mile

District nun:	1	Api number:	03706425
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Dept. of Conservation		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	407.99
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	42206108.ssf		
Leasename:	L.A.	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000189658		

M265
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215609**

District nun:	1	Api number:	03725443
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	117
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215609		

M266
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000189700**

District nun:	1	Api number:	03706476
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Dept. of Conservation		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	411.259
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	L.A.	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000189700		

Map ID
Direction
Distance

Database EDR ID Number

N267
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215934**

District nun:	1	Api number:	03725769
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	PWC Family Housing, L.P.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	341’
Locationde:	Not Reported		
Gissourcec:	opr		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215934		

N268
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213791**

District nun:	1	Api number:	03718988
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Little Tokyo Service Center Community Development Corporation		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	opr		
Comments:	Not Reported		
Leasename:	Hall	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213791		

N269
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000298901**

District nun:	1	Api number:	03730174
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	PWC Family Housing, L.P.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	340’
Locationde:	Not Reported		
Gissourcec:	opr		
Comments:	Not Reported		
Leasename:	Unknown	Wellnumber:	1-2013
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000298901		

O270
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213795**

District nun:	1	Api number:	03718994
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Little Tokyo Service Center Community Development Corporation		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Louis	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213795		

L271
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215683**

District nun:	1	Api number:	03725517
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. J. George		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215683		

M272
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215615**

District nun:	1	Api number:	03725449
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	100
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215615		

L273
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216042**

District nun:	1	Api number:	03725877
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Little Napoleon Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216042		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

P274
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215613**

District nun:	1	Api number:	03725447
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	118
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215613		

O275
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213785**

District nun:	1	Api number:	03718978
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Clampitt Co		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213785		

L276
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215935**

District nun:	1	Api number:	03725770
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215935		

N277
WSW **OIL_GAS** **CAOG11000211737**
1/4 - 1/2 Mile

District nun:	1	Api number:	03716577
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Little Tokyo Service Center Community Development Corporation		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	opr		
Comments:	Not Reported		
Leasename:	Metropolitan	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211737		

O278
West **OIL_GAS** **CAOG11000215651**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725485
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. Elton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215651		

L279
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215653**

District nun:	1	Api number:	03725487
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. Elton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215653		

N280
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192977**

District nun:	1	Api number:	03719031
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Cal Cont Capital Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	360.524
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	3-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192977		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

M281
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215621**

District nun:	1	Api number:	03725455
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	101
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215621		

O282
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215649**

District nun:	1	Api number:	03725483
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. Elton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215649		

O283
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215936**

District nun:	1	Api number:	03725771
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Knight & Sons		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215936		

P284
ENE **OIL_GAS** **CAOG11000215618**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725452
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	105
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215618		

O285
West **OIL_GAS** **CAOG11000215684**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725518
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. J. George		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215684		

P286
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215608**

District nun:	1	Api number:	03725442
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	120
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215608		

Q287
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215650**

District nun:	1	Api number:	03725484
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. Elton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215650		

Map ID
Direction
Distance

Database EDR ID Number

O288
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000261671**

District nun:	1	Api number:	03727436
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	PWC Family Housing, L.P.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	opr		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000261671		

O289
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215682**

District nun:	1	Api number:	03725516
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. J. George		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215682		

Q290
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216041**

District nun:	1	Api number:	03725876
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Little Napoleon Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216041		

N291
WSW **OIL_GAS** **CAOG11000213792**
1/4 - 1/2 Mile

District nun:	1	Api number:	03718989
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Little Tokyo Service Center Community Development Corporation		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	opr		
Comments:	Not Reported		
Leasename:	Hall	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213792		

O292
West **OIL_GAS** **CAOG11000215654**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725488
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. Elton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215654		

O293
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213796**

District nun:	1	Api number:	03718995
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Little Tokyo Service Center Community Development Corporation		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Louis	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213796		

P294
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215620**

District nun:	1	Api number:	03725454
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	103
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215620		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

N295
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192973**

District nun:	1	Api number:	03719026
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Cal Cont Capital Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	370.294
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	1-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192973		

P296
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215605**

District nun:	1	Api number:	03725439
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	119
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215605		

O297
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213786**

District nun:	1	Api number:	03718981
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Clampitt Co		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Burgess	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213786		

P298
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215623**

District nun:	1	Api number:	03725457
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	102
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215623		

N299
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192976**

District nun:	1	Api number:	03719029
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Cal Cont Capital Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	358.554
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	2-A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192976		

P300
ENE **OIL_GAS** **CAOG11000215610**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725444
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	115
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215610		

P301
East **OIL_GAS** **CAOG11000215619**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725453
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	104
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215619		

Map ID
Direction
Distance

Database EDR ID Number

P302
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000200820**

District nun:	1	Api number:	03700423
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	The Geotest Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200820		

O303
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215813**

District nun:	1	Api number:	03725648
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Graham Sisters		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215813		

O304
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215881**

District nun:	1	Api number:	03725716
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215881		

P305
ENE **OIL_GAS** **CAOG11000215617**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725451
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	106
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215617		

Q306
West **OIL_GAS** **CAOG11000215884**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725719
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215884		

O307
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216046**

District nun:	1	Api number:	03725881
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Mrs. Manett		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216046		

Q308
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215652**

District nun:	1	Api number:	03725486
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. Elton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215652		

Map ID
Direction
Distance

Database EDR ID Number

O309
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216045**

District nun:	1	Api number:	03725880
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Mrs. Manett		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216045		

P310
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216043**

District nun:	1	Api number:	03725878
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Little Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216043		

P311
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000200819**

District nun:	1	Api number:	03700422
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	The Geotest Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200819		

P312
ENE **OIL_GAS** **CAOG11000200821**
1/4 - 1/2 Mile

District nun:	1	Api number:	03700424
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	The Geotest Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200821		

R313
WSW **OIL_GAS** **CAOG11000216321**
1/4 - 1/2 Mile

District nun:	1	Api number:	03726157
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	W. Saunders		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216321		

O314
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216319**

District nun:	1	Api number:	03726155
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	W. Saunders		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216319		

P315
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216044**

District nun:	1	Api number:	03725879
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Little Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216044		

Map ID
Direction
Distance

Database EDR ID Number

P316
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215616**

District nun:	1	Api number:	03725450
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	107
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215616		

S317
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216134**

District nun:	1	Api number:	03725969
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Morrell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216134		

P318
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216314**

District nun:	1	Api number:	03726150
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	W. S. Morgan		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216314		

S319
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216133**

District nun:	1	Api number:	03725968
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Morrell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216133		

O320
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215599**

District nun:	1	Api number:	03725433
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Burlington Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215599		

Q321
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215810**

District nun:	1	Api number:	03725645
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Geo. Lawrence		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215810		

S322
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216315**

District nun:	1	Api number:	03726151
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	W. S. Morgan		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216315		

Map ID
Direction
Distance

Database EDR ID Number

P323
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215622**

District nun:	1	Api number:	03725456
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	109
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215622		

S324
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216135**

District nun:	1	Api number:	03725970
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Morrell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216135		

Q325
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213794**

District nun:	1	Api number:	03718993
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Clampitt Co		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Lawrence	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213794		

P326
ENE **OIL_GAS** **CAOG11000215614**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725448
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	108
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215614		

P327
ENE **OIL_GAS** **CAOG11000213906**
1/4 - 1/2 Mile

District nun:	1	Api number:	03719156
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	110
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213906		

S328
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216304**

District nun:	1	Api number:	03726140
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216304		

P329
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000200818**

District nun:	1	Api number:	03700421
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	The Geotest Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200818		

Map ID
Direction
Distance

Database EDR ID Number

R330
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216069**

District nun:	1	Api number:	03725904
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216069		

O331
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215598**

District nun:	1	Api number:	03725432
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Burlington Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215598		

P332
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215612**

District nun:	1	Api number:	03725446
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	113
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215612		

S333
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216303**

District nun:	1	Api number:	03726139
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216303		

O334
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215814**

District nun:	1	Api number:	03725649
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Green Mt. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215814		

S335
East **OIL_GAS** **CAOG11000216317**
1/4 - 1/2 Mile

District nun:	1	Api number:	03726153
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	W. S. Morgan		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216317		

O336
WSW **OIL_GAS** **CAOG11000216064**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725899
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216064		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

S337
East **OIL_GAS** **CAOG11000216318**
1/4 - 1/2 Mile

District nun:	1	Api number:	03726154
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	W. S. Morgan		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216318		

P338
ENE **OIL_GAS** **CAOG11000213907**
1/4 - 1/2 Mile

District nun:	1	Api number:	03719157
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	111
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213907		

O339
WSW **OIL_GAS** **CAOG11000192951**
1/4 - 1/2 Mile

District nun:	1	Api number:	03718997
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Ker-Oil International Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	399.483
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Wincup	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192951		

S340
East **OIL_GAS** **CAOG11000216316**
1/4 - 1/2 Mile

District nun:	1	Api number:	03726152
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	W. S. Morgan		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216316		

P341
ENE **OIL_GAS** **CAOG11000200817**
1/4 - 1/2 Mile

District nun:	1	Api number:	03700420
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	The Geotest Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200817		

Q342
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213793**

District nun:	1	Api number:	03718992
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Clampitt Co		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Jones	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213793		

Q343
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216296**

District nun:	1	Api number:	03726132
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	32A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216296		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

344
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000214315**

District nun:	1	Api number:	03720785
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Phillips Petroleum Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	28
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Civic Center	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000214315		

R345
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192946**

District nun:	1	Api number:	03718980
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Ker-Oil International Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	392.264
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192946		

Q346
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213797**

District nun:	1	Api number:	03718996
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Clampitt Co		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	M.Z.	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213797		

O347
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000193990**

District nun:	1	Api number:	03722870
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Ker-Oil International Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	404.053
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Unit	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000193990		

R348
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215878**

District nun:	1	Api number:	03725713
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215878		

Q349
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215909**

District nun:	1	Api number:	03725744
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	K. W. Wing		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215909		

S350
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216183**

District nun:	1	Api number:	03726018
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216183		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

T351
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215611**

District nun:	1	Api number:	03725445
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	114
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215611		

U352
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215845**

District nun:	1	Api number:	03725680
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. J. O'Dell		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	O'Dell Fee	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215845		

T353
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000200822**

District nun:	1	Api number:	03700425
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	The Geotest Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bernard	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200822		

T354
ENE **OIL_GAS** **CAOG11000213908**
1/4 - 1/2 Mile

District nun:	1	Api number:	03719158
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	112
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213908		

S355
East **OIL_GAS** **CAOG11000215765**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725599
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215765		

U356
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215699**

District nun:	1	Api number:	03725533
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. V. Hall		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215699		

Q357
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213789**

District nun:	1	Api number:	03718984
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Clampitt Co		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Elton	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213789		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

T358
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215875**

District nun:	1	Api number:	03725710
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Humphrey Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215875		

Q359
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213799**

District nun:	1	Api number:	03718999
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Clampitt Co		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Wing	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213799		

U360
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215590**

District nun:	1	Api number:	03725424
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Big Five Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215590		

S361
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215805**

District nun:	1	Api number:	03725640
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	George Ford		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215805		

U362
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215589**

District nun:	1	Api number:	03725423
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Big Five Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215589		

T363
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216309**

District nun:	1	Api number:	03726145
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Ventura Consolidated Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216309		

U364
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000217141**

District nun:	1	Api number:	03727076
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Green Mt. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000217141		

Map ID
Direction
Distance

Database EDR ID Number

U365
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215700**

District nun:	1	Api number:	03725534
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. V. Hall		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215700		

U366
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215905**

District nun:	1	Api number:	03725740
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Dr. J. S. Moore		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215905		

S367
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215806**

District nun:	1	Api number:	03725641
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	George Ford		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215806		

U368
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215913**

District nun:	1	Api number:	03725748
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Ker-Oil International Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215913		

S369
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216301**

District nun:	1	Api number:	03726137
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216301		

T370
ENE **OIL_GAS** **CAOG11000215876**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725711
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Humphrey Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215876		

S371
East **OIL_GAS** **CAOG11000215629**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725463
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	92
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215629		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

T372
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000200827**

District nun:	1	Api number:	03700453
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	The Geotest Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bernard	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200827		

V373
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215291**

District nun:	1	Api number:	03725044
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215291		

W374
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000215874**

District nun:	1	Api number:	03725709
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Humphrey Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215874		

U375
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192948**

District nun:	1	Api number:	03718987
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Ker-Oil International Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	416.609
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Gardner	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192948		

U376
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213798**

District nun:	1	Api number:	03718998
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Clampitt Co		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Pacific Coast	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213798		

U377
WSW **OIL_GAS** **CAOG11000215764**
1/4 - 1/2 Mile

District nun:	1	Api number:	03725598
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Doran & Brouse		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215764		

T378
ENE **OIL_GAS** **CAOG11000200828**
1/4 - 1/2 Mile

District nun:	1	Api number:	03700454
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	The Geotest Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bernard	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200828		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

W379
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213904**

District nun:	1	Api number:	03719154
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	91
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213904		

U380
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192945**

District nun:	1	Api number:	03718979
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Ker-Oil International Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	403.063
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Not Reported	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192945		

S381
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000216305**

District nun:	1	Api number:	03726141
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216305		

W382
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000213905**

District nun:	1	Api number:	03719155
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	95
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213905		

T383
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000200829**

District nun:	1	Api number:	03700455
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	The Geotest Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Bernard	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200829		

V384
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216210**

District nun:	1	Api number:	03726045
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Philip H. McAlmond		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	McAlmond	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216210		

V385
West
1/2 - 1 Mile

OIL_GAS **CAOG11000213790**

District nun:	1	Api number:	03718985
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Clampitt Co		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ferguson	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213790		

Map ID
Direction
Distance

Database EDR ID Number

U386
West
1/2 - 1 Mile

OIL_GAS **CAOG11000192982**

District nun:	1	Api number:	03719037
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Manley Energy Resources, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	411.038
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207229.ssf		
Leasename:	MOC	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192982		

W387
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213931**

District nun:	1	Api number:	03719181
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Back	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213931		

U388
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215846**

District nun:	1	Api number:	03725681
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Hatch	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215846		

U389
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215763**

District nun:	1	Api number:	03725597
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Doran & Brouse		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215763		

W390
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215631**

District nun:	1	Api number:	03725465
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	94
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215631		

W391
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215624**

District nun:	1	Api number:	03725458
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	93
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215624		

V392
West
1/2 - 1 Mile

OIL_GAS **CAOG11000192958**

District nun:	1	Api number:	03719008
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	PS126 Investments, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	410.318
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	McAlmond	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192958		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

U393
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215907**

District nun:	1	Api number:	03725742
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Johnson Newman		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215907		

T394
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213918**

District nun:	1	Api number:	03719168
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	The Geotest Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Bernard	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213918		

V395
West
1/2 - 1 Mile

OIL_GAS **CAOG11000192984**

District nun:	1	Api number:	03719039
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Manley Energy Resources, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	418.737
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	MOC	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192984		

U396
West
1/2 - 1 Mile

OIL_GAS **CAOG11000192960**

District nun:	1	Api number:	03719010
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	PS126 Investments, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	417.667
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	McAlmond	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192960		

V397
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216273**

District nun:	1	Api number:	03726109
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	31
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216273		

V398
West
1/2 - 1 Mile

OIL_GAS **CAOG11000193982**

District nun:	1	Api number:	03722861
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Philip H. McAlmond		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	414.789
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	McAlmond	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000193982		

W399
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213934**

District nun:	1	Api number:	03719184
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Front	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213934		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

W400
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215689**

District nun:	1	Api number:	03725523
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. V. Hall		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215689		

T401
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216302**

District nun:	1	Api number:	03726138
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216302		

U402
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216065**

District nun:	1	Api number:	03725900
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216065		

U403
WSW **OIL_GAS** **CAOG11000215916**
1/2 - 1 Mile

District nun:	1	Api number:	03725751
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	L. A. Unified School Dist.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215916		

W404
East **OIL_GAS** **CAOG11000215625**
1/2 - 1 Mile

District nun:	1	Api number:	03725459
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	99
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215625		

U405
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216269**

District nun:	1	Api number:	03726105
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	29
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216269		

T406
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216306**

District nun:	1	Api number:	03726142
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216306		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

W407
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215628**

District nun:	1	Api number:	03725462
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	96
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215628		

V408
West
1/2 - 1 Mile

OIL_GAS **CAOG11000194078**

District nun:	1	Api number:	03723040
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Philip H. McAlmond		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	408.529
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	McAlmond	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000194078		

V409
West
1/2 - 1 Mile

OIL_GAS **CAOG11000194077**

District nun:	1	Api number:	03723039
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Philip H. McAlmond		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	411.044
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	McAlmond	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000194077		

V410
West
1/2 - 1 Mile

OIL_GAS **CAOG11000194024**

District nun:	1	Api number:	03723037
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	PS126 Investments, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	413.871
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	McAlmond	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000194024		

V411
West
1/2 - 1 Mile

OIL_GAS **CAOG11000194023**

District nun:	1	Api number:	03723036
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	PS126 Investments, LLC		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	416.496
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	42206108.ssf		
Leasename:	McAlmond	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000194023		

V412
West
1/2 - 1 Mile

OIL_GAS **CAOG11000194079**

District nun:	1	Api number:	03723041
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Philip H. McAlmond		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	409.901
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	McAlmond	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000194079		

V413
West
1/2 - 1 Mile

OIL_GAS **CAOG11000194025**

District nun:	1	Api number:	03723038
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Philip H. McAlmond		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	415.321
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	McAlmond	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000194025		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

V414
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216067**

District nun:	1	Api number:	03725902
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Manley Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216067		

V415
West
1/2 - 1 Mile

OIL_GAS **CAOG11000192959**

District nun:	1	Api number:	03719009
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Philip H. McAlmond		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	418.821
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	McAlmond	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000192959		

U416
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000215914**

District nun:	1	Api number:	03725749
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215914		

V417
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215908**

District nun:	1	Api number:	03725743
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Johnson Newman		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215908		

T418
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215702**

District nun:	1	Api number:	03725536
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chicago Ferndale Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215702		

419
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000215601**

District nun:	1	Api number:	03725435
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Burlington Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215601		

W420
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215639**

District nun:	1	Api number:	03725473
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	88
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215639		

Map ID
Direction
Distance

Database EDR ID Number

X421
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000215917**

District nun:	1	Api number:	03725752
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215917		

W422
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215626**

District nun:	1	Api number:	03725460
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	98
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215626		

W423
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215641**

District nun:	1	Api number:	03725475
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	86
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215641		

V424
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216291**

District nun:	1	Api number:	03726127
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	35
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216291		

W425
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213903**

District nun:	1	Api number:	03719153
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	85
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213903		

W426
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215627**

District nun:	1	Api number:	03725461
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	97
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215627		

W427
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215642**

District nun:	1	Api number:	03725476
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	84
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215642		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

X428
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000215915**

District nun:	1	Api number:	03725750
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215915		

V429
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216292**

District nun:	1	Api number:	03726128
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	34
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216292		

X430
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216193**

District nun:	1	Api number:	03726028
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216193		

Y431
ENE **OIL_GAS** **CAOG11000215698**
1/2 - 1 Mile

District nun:	1	Api number:	03725532
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chas. V. Hall		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215698		

432
SW **OIL_GAS** **CAOG11000214162**
1/2 - 1 Mile

District nun:	1	Api number:	03720649
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	29
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Bixel-Miramar C.H.	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000214162		

W433
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215636**

District nun:	1	Api number:	03725470
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	90
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215636		

Z434
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215632**

District nun:	1	Api number:	03725466
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	83
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215632		

Map ID
Direction
Distance

Database EDR ID Number

W435
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215638**

District nun:	1	Api number:	03725472
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	89
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215638		

Y436
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215749**

District nun:	1	Api number:	03725583
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Dogget & Fletcher		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215749		

X437
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000215919**

District nun:	1	Api number:	03725754
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215919		

AA438
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216293**

District nun:	1	Api number:	03726129
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	33
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216293		

Z439
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215637**

District nun:	1	Api number:	03725471
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	80
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215637		

Z440
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215640**

District nun:	1	Api number:	03725474
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	87
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215640		

Y441
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213901**

District nun:	1	Api number:	03719151
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	81
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213901		

Map ID
Direction
Distance

Database EDR ID Number

Y442
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215873**

District nun:	1	Api number:	03725708
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Humphrey Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215873		

Y443
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215594**

District nun:	1	Api number:	03725428
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	British Calif. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215594		

AA444
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216295**

District nun:	1	Api number:	03726131
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	32
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216295		

Y445
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215633**

District nun:	1	Api number:	03725467
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	79
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215633		

X446
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215840**

District nun:	1	Api number:	03725675
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215840		

X447
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000215877**

District nun:	1	Api number:	03725712
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215877		

X448
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000216215**

District nun:	1	Api number:	03726050
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	R. H. Alexander, Jr.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216215		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AA449
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216212**

District nun:	1	Api number:	03726047
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Richard Green		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216212		

Z450
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215634**

District nun:	1	Api number:	03725468
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	75
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215634		

Z451
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213900**

District nun:	1	Api number:	03719150
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	76
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213900		

Y452
ENE **OIL_GAS** **CAOG11000215595**
1/2 - 1 Mile

District nun:	1	Api number:	03725429
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	British Calif. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215595		

Z453
East **OIL_GAS** **CAOG11000215635**
1/2 - 1 Mile

District nun:	1	Api number:	03725469
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	71
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215635		

AA454
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216213**

District nun:	1	Api number:	03726048
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Richard Green		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216213		

AA455
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215576**

District nun:	1	Api number:	03725410
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Alexander	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215576		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

Z456
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215648**

District nun:	1	Api number:	03725482
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	66
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215648		

Y457
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215592**

District nun:	1	Api number:	03725426
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	British Calif. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215592		

Y458
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215597**

District nun:	1	Api number:	03725431
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	British Calif. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215597		

X459
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215828**

District nun:	1	Api number:	03725663
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215828		

AA460
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216211**

District nun:	1	Api number:	03726046
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Richard Green		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216211		

X461
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000215918**

District nun:	1	Api number:	03725753
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215918		

Z462
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215793**

District nun:	1	Api number:	03725627
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Mc Cue	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215793		

Map ID
Direction
Distance

Database EDR ID Number

X463
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215829**

District nun:	1	Api number:	03725664
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215829		

Y464
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215158**

District nun:	1	Api number:	03723862
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Kaiser Foundation Health Plan, Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Unknown	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215158		

Z465
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215647**

District nun:	1	Api number:	03725481
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	65
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215647		

Z466
East **OIL_GAS** **CAOG11000215800**
1/2 - 1 Mile

District nun:	1	Api number:	03725634
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Mc Cue	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215800		

Y467
ENE **OIL_GAS** **CAOG11000215159**
1/2 - 1 Mile

District nun:	1	Api number:	03723863
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Kaiser Foundation Health Plan, Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Unknown	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215159		

Z468
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213940**

District nun:	1	Api number:	03719190
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Regal	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213940		

Y469
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211744**

District nun:	1	Api number:	03716585
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Core Hole	Wellnumber:	THREE
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211744		

Map ID
Direction
Distance

Database EDR ID Number

Y470
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215575**

District nun:	1	Api number:	03725409
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	A. D. Reese		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215575		

Z471
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215802**

District nun:	1	Api number:	03725636
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Mc Cue	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215802		

Z472
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215796**

District nun:	1	Api number:	03725630
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Mc Cue	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215796		

Z473
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215797**

District nun:	1	Api number:	03725631
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Regal	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215797		

AA474
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216108**

District nun:	1	Api number:	03725943
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Helen Sanborn		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216108		

475
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000215130**

District nun:	1	Api number:	03723575
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Trio Petroleum Inc.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Stadium Way Core Hole	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215130		

Y476
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215681**

District nun:	1	Api number:	03725515
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Richards	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215681		

Map ID
Direction
Distance

Database EDR ID Number

Z477
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215799**

District nun:	1	Api number:	03725633
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Mc Cue	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215799		

AA478
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216294**

District nun:	1	Api number:	03726130
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	33A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216294		

AB479
East
1/2 - 1 Mile

OIL_GAS **CAOG11000216101**

District nun:	1	Api number:	03725936
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Murrietta		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216101		

AB480
East
1/2 - 1 Mile

OIL_GAS **CAOG11000211743**

District nun:	1	Api number:	03716584
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Core Hole	Wellnumber:	TWO
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211743		

Y481
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000211742**

District nun:	1	Api number:	03716583
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Core Hole	Wellnumber:	ONE
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211742		

AB482
East
1/2 - 1 Mile

OIL_GAS **CAOG11000216100**

District nun:	1	Api number:	03725935
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Murrietta		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216100		

AB483
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213898**

District nun:	1	Api number:	03719148
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	73
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213898		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AA484
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216109**

District nun:	1	Api number:	03725944
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Helen Sanborn		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216109		

AC485
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000211748**

District nun:	1	Api number:	03716589
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Ventura Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Figueroa Community	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211748		

Y486
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000211745**

District nun:	1	Api number:	03716586
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Core Hole	Wellnumber:	FOUR
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000211745		

AD487
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000216287**

District nun:	1	Api number:	03726123
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	36
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216287		

AB488
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213897**

District nun:	1	Api number:	03719147
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	72
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213897		

AB489
East
1/2 - 1 Mile

OIL_GAS **CAOG11000216102**

District nun:	1	Api number:	03725937
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Murrietta		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216102		

AC490
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213899**

District nun:	1	Api number:	03719149
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	74
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213899		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AB491
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215794**

District nun:	1	Api number:	03725628
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Mc Cue	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215794		

AE492
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216310**

District nun:	1	Api number:	03726146
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	W & P.C. Mellena		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Mellena	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216310		

AD493
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000215888**

District nun:	1	Api number:	03725723
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215888		

AD494
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216298**

District nun:	1	Api number:	03726134
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	40
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216298		

AD495
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216297**

District nun:	1	Api number:	03726133
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	38
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216297		

AD496
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216285**

District nun:	1	Api number:	03726121
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	41
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216285		

AB497
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213826**

District nun:	1	Api number:	03719076
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Nate Bray (G. N.)		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213826		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AB498
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215798**

District nun:	1	Api number:	03725632
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Mc Cue	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215798		

AB499
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213896**

District nun:	1	Api number:	03719146
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	70
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213896		

AB500
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213893**

District nun:	1	Api number:	03719143
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	67
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213893		

AD501
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216288**

District nun:	1	Api number:	03726124
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	39
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216288		

AB502
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215792**

District nun:	1	Api number:	03725626
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Regal	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215792		

AC503
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000211746**

District nun:	1	Api number:	03716587
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Ventura Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	L. A. Brick	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000211746		

AB504
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215801**

District nun:	1	Api number:	03725635
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Mc Cue	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215801		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AD505
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000216290**

District nun:	1	Api number:	03726126
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	37
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216290		

AB506
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213942**

District nun:	1	Api number:	03719192
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1-1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213942		

AB507
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213895**

District nun:	1	Api number:	03719145
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	69
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213895		

AB508
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213827**

District nun:	1	Api number:	03719077
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Nate Bray (G. N.)		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213827		

AD509
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000216308**

District nun:	1	Api number:	03726144
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Jack Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216308		

AB510
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213894**

District nun:	1	Api number:	03719144
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	68
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213894		

AB511
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213951**

District nun:	1	Api number:	03719201
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213951		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AB512
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213828**

District nun:	1	Api number:	03719078
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Nate Bray (G. N.)		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213828		

AB513
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215795**

District nun:	1	Api number:	03725629
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Mc Cue	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215795		

AD514
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215655**

District nun:	1	Api number:	03725489
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Calvin C. Green		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215655		

AD515
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216214**

District nun:	1	Api number:	03726049
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	R. Von Cleeve		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216214		

AB516
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215791**

District nun:	1	Api number:	03725625
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215791		

AB517
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213949**

District nun:	1	Api number:	03719199
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213949		

AD518
West
1/2 - 1 Mile

OIL_GAS **CAOG11000213920**

District nun:	1	Api number:	03719170
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Calvin C. Green		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213920		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AE519
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215583**

District nun:	1	Api number:	03725417
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Alpha Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215583		

AD520
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216084**

District nun:	1	Api number:	03725919
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Midland Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216084		

AD521
West
1/2 - 1 Mile

OIL_GAS **CAOG11000213921**

District nun:	1	Api number:	03719171
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Calvin C. Green		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213921		

AE522
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216127**

District nun:	1	Api number:	03725962
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Off Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216127		

AB523
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213950**

District nun:	1	Api number:	03719200
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213950		

AD524
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215730**

District nun:	1	Api number:	03725564
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Conoco Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215730		

AC525
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000192962**

District nun:	1	Api number:	03719014
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chavez Realty Develop Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	427.7
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207148.ssf		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192962		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AD526
West
1/2 - 1 Mile

OIL_GAS **CAOG11000213800**

District nun:	1	Api number:	03719000
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Clampitt Co		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	23
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213800		

AB527
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213948**

District nun:	1	Api number:	03719198
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213948		

AD528
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000216307**

District nun:	1	Api number:	03726143
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Jack Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216307		

AB529
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213803**

District nun:	1	Api number:	03719013
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Carl B. Breig		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213803		

AE530
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216126**

District nun:	1	Api number:	03725961
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Off Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216126		

AB531
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213892**

District nun:	1	Api number:	03719142
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	64
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213892		

AF532
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000192963**

District nun:	1	Api number:	03719015
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chavez Realty Develop Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	392.457
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207148.ssf		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192963		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AG533
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216085**

District nun:	1	Api number:	03725920
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Midland Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216085		

AB534
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213829**

District nun:	1	Api number:	03719079
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Nate Bray (G. N.)		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213829		

AE535
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215585**

District nun:	1	Api number:	03725419
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Alpha Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215585		

AD536
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216434**

District nun:	1	Api number:	03726270
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Young & Shaw		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216434		

AF537
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216248**

District nun:	1	Api number:	03726084
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Tyler Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216248		

AG538
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216299**

District nun:	1	Api number:	03726135
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	42
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216299		

AF539
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213830**

District nun:	1	Api number:	03719080
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Nate Bray (G. N.)		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213830		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AH540
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213891**

District nun:	1	Api number:	03719141
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	63
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213891		

AG541
West
1/2 - 1 Mile

OIL_GAS **CAOG11000200694**

District nun:	1	Api number:	03700140
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Clampitt Co		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Book	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000200694		

AG542
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216125**

District nun:	1	Api number:	03725960
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Off Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216125		

AF543
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192964**

District nun:	1	Api number:	03719016
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chavez Realty Develop Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	381.802
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207148.ssf		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192964		

AG544
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216289**

District nun:	1	Api number:	03726125
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	43
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216289		

AF545
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216247**

District nun:	1	Api number:	03726083
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Tyler Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216247		

AF546
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215596**

District nun:	1	Api number:	03725430
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	British Calif. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215596		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AH547
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215154**

District nun:	1	Api number:	03723858
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Unknown	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215154		

AG548
West
1/2 - 1 Mile

OIL_GAS **CAOG11000192983**

District nun:	1	Api number:	03719038
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Wat Khmer Temple		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	419.172
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42206108.ssf		
Leasename:	Marko	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192983		

AH549
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215155**

District nun:	1	Api number:	03723859
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Unknown	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215155		

AG550
West
1/2 - 1 Mile

OIL_GAS **CAOG11000213923**

District nun:	1	Api number:	03719173
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Calvin C. Green		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213923		

AF551
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000192966**

District nun:	1	Api number:	03719018
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chavez Realty Develop Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	385.965
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	42207148.ssf		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192966		

AF552
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215591**

District nun:	1	Api number:	03725425
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	British Calif. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215591		

AG553
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215581**

District nun:	1	Api number:	03725415
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Alliance Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215581		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AF554
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192965**

District nun:	1	Api number:	03719017
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chavez Realty Develop Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	373.64
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207148.ssf		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192965		

AG555
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216277**

District nun:	1	Api number:	03726113
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	45
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216277		

AF556
East
1/2 - 1 Mile

OIL_GAS **CAOG11000216246**

District nun:	1	Api number:	03726082
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Tyler Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216246		

AG557
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215742**

District nun:	1	Api number:	03725576
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Consolidated Crude Corp.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215742		

AF558
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215593**

District nun:	1	Api number:	03725427
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	British Calif. Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215593		

AG559
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216278**

District nun:	1	Api number:	03726114
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	44
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216278		

AG560
West
1/2 - 1 Mile

OIL_GAS **CAOG11000213924**

District nun:	1	Api number:	03719174
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Calvin C. Green		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213924		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AG561
West
1/2 - 1 Mile

OIL_GAS **CAOG11000213922**

District nun:	1	Api number:	03719172
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Calvin C. Green		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213922		

AH562
East
1/2 - 1 Mile

OIL_GAS **CAOG11000216052**

District nun:	1	Api number:	03725887
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Maier & Zoblein Brewing Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Eastern Area Drilled 1696	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216052		

AH563
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192970**

District nun:	1	Api number:	03719022
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	First Chinese Bapt. Church		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	345.522
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207148.ssf		
Leasename:	A. F. Hodges	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192970		

AF564
ENE **OIL_GAS** **CAOG11000215568**
1/2 - 1 Mile

District nun:	1	Api number:	03725402
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215568		

AH565
East **OIL_GAS** **CAOG11000216053**
1/2 - 1 Mile

District nun:	1	Api number:	03725888
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Maier & Zoblein Brewing Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216053		

AF566
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215570**

District nun:	1	Api number:	03725404
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215570		

AG567
West
1/2 - 1 Mile

OIL_GAS **CAOG11000213925**

District nun:	1	Api number:	03719175
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Calvin C. Green		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213925		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AF568
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215571**

District nun:	1	Api number:	03725405
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215571		

AG569
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215784**

District nun:	1	Api number:	03725618
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. P. Clark		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215784		

AF570
East
1/2 - 1 Mile

OIL_GAS **CAOG11000216245**

District nun:	1	Api number:	03726081
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Tyler Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216245		

AF571
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000192967**

District nun:	1	Api number:	03719019
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chavez Realty Develop Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	373.702
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207148.ssf		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192967		

AG572
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215584**

District nun:	1	Api number:	03725418
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Alpha Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215584		

AH573
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213804**

District nun:	1	Api number:	03719023
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Henry & Jane Fong		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	A. F. Hodges	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213804		

AI574
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215573**

District nun:	1	Api number:	03725407
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215573		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AF575
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192972**

District nun:	1	Api number:	03719025
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	PAMC, Ltd.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	343.355
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207148.ssf		
Leasename:	A. F. Hodges	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192972		

AF576
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215572**

District nun:	1	Api number:	03725406
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215572		

AG577
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215656**

District nun:	1	Api number:	03725490
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Leslie		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215656		

AG578
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216276**

District nun:	1	Api number:	03726112
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	46
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216276		

AF579
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213919**

District nun:	1	Api number:	03719169
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	R. Earl		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213919		

AF580
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216243**

District nun:	1	Api number:	03726079
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Standard Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000216243		

AJ581
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215582**

District nun:	1	Api number:	03725416
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Alpha Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215582		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AH582
East
1/2 - 1 Mile

OIL_GAS **CAOG11000192971**

District nun:	1	Api number:	03719024
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	First Chinese Bapt. Church		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	350.122
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207148.ssf		
Leasename:	A. F. Hodges	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192971		

AI583
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215569**

District nun:	1	Api number:	03725403
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215569		

AF584
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213832**

District nun:	1	Api number:	03719082
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Nate Bray (G. N.)		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213832		

AG585
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216275**

District nun:	1	Api number:	03726111
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	47
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216275		

AK586
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215567**

District nun:	1	Api number:	03725401
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Standard Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Zobelein	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215567		

AG587
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215190**

District nun:	1	Api number:	03723894
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	48
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215190		

AI588
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213831**

District nun:	1	Api number:	03719081
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Nate Bray (G. N.)		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213831		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AI589
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216181**

District nun:	1	Api number:	03726016
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216181		

AI590
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216244**

District nun:	1	Api number:	03726080
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Mrs. Emma Summers		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216244		

AL591
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215940**

District nun:	1	Api number:	03725775
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	L.A. Pac. Elect. R. R. Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215940		

AJ592
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215577**

District nun:	1	Api number:	03725411
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Alliance Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215577		

AI593
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215732**

District nun:	1	Api number:	03725566
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Consolidated Crude Corp.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215732		

AK594
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213886**

District nun:	1	Api number:	03719136
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	51
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213886		

AJ595
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216274**

District nun:	1	Api number:	03726110
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	49
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216274		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AL596
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000215941**

District nun:	1	Api number:	03725776
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	L.A. Pac. Elect. R. R. Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215941		

AK597
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213881**

District nun:	1	Api number:	03719131
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	46
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213881		

AL598
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215939**

District nun:	1	Api number:	03725774
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	L.A. Pac. Elect. R. R. Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215939		

AI599
ENE **OIL_GAS** **CAOG11000216184**
1/2 - 1 Mile

District nun:	1	Api number:	03726019
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216184		

AK600
East **OIL_GAS** **CAOG11000215179**
1/2 - 1 Mile

District nun:	1	Api number:	03723883
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Kenneth & Katherine Manley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Lapp	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215179		

AI601
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216156**

District nun:	1	Api number:	03725991
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216156		

AI602
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215574**

District nun:	1	Api number:	03725408
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215574		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AJ603
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216040**

District nun:	1	Api number:	03725875
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Little Napoleon Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216040		

AJ604
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215887**

District nun:	1	Api number:	03725722
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215887		

AK605
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213833**

District nun:	1	Api number:	03719083
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Nate Bray (G. N.)		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213833		

AL606
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215938**

District nun:	1	Api number:	03725773
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	L.A. Pac. Elect. R. R. Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215938		

AI607
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213882**

District nun:	1	Api number:	03719132
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	47
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213882		

AI608
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216180**

District nun:	1	Api number:	03726015
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216180		

AJ609
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215883**

District nun:	1	Api number:	03725718
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	20A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215883		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AK610
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213880**

District nun:	1	Api number:	03719130
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	45
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213880		

AJ611
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215578**

District nun:	1	Api number:	03725412
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Alliance Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215578		

AK612
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213802**

District nun:	1	Api number:	03719012
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Carl B. Breig		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213802		

AK613
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213888**

District nun:	1	Api number:	03719138
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	53
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213888		

AL614
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215733**

District nun:	1	Api number:	03725567
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Consolidated Crude Corp.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215733		

AK615
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213889**

District nun:	1	Api number:	03719139
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	54
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213889		

AK616
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213887**

District nun:	1	Api number:	03719137
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	52
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213887		

Map ID
Direction
Distance

Database EDR ID Number

AJ617
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215603**

District nun:	1	Api number:	03725437
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Burlington Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215603		

AI618
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215645**

District nun:	1	Api number:	03725479
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	59
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215645		

AI619
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216115**

District nun:	1	Api number:	03725950
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Bill Nye Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216115		

AJ620
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216284**

District nun:	1	Api number:	03726120
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	51
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216284		

AL621
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215937**

District nun:	1	Api number:	03725772
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	L.A. Pac. Elect. R. R. Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215937		

AJ622
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215602**

District nun:	1	Api number:	03725436
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Burlington Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215602		

AK623
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213883**

District nun:	1	Api number:	03719133
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	48
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213883		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AK624
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215168**

District nun:	1	Api number:	03723872
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215168		

AI625
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215644**

District nun:	1	Api number:	03725478
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	57
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215644		

AK626
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215646**

District nun:	1	Api number:	03725480
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	60
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215646		

AK627
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215906**

District nun:	1	Api number:	03725741
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Joe Gellen		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215906		

AL628
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215879**

District nun:	1	Api number:	03725714
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215879		

AK629
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213890**

District nun:	1	Api number:	03719140
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	55
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213890		

AJ630
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216286**

District nun:	1	Api number:	03726122
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	52
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216286		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AJ631
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216233**

District nun:	1	Api number:	03726069
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	S. McLauren		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216233		

AK632
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215167**

District nun:	1	Api number:	03723871
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215167		

AM633
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216279**

District nun:	1	Api number:	03726115
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	50
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216279		

AK634
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213875**

District nun:	1	Api number:	03719125
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	38
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213875		

AK635
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215606**

District nun:	1	Api number:	03725440
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	43
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215606		

AN636
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215180**

District nun:	1	Api number:	03723884
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Kenneth & Katherine Manley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Lapp	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215180		

AJ637
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215579**

District nun:	1	Api number:	03725413
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Alliance Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215579		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AK638
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213927**

District nun:	1	Api number:	03719177
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Thomas F. Joyce		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213927		

AM639
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215580**

District nun:	1	Api number:	03725414
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Alliance Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215580		

AL640
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215885**

District nun:	1	Api number:	03725720
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215885		

AN641
ENE **OIL_GAS** **CAOG11000215643**
1/2 - 1 Mile

District nun:	1	Api number:	03725477
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	58
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215643		

AN642
ENE **OIL_GAS** **CAOG11000216218**
1/2 - 1 Mile

District nun:	1	Api number:	03726054
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Rommell Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216218		

AO643
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213936**

District nun:	1	Api number:	03719186
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Murrieta	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213936		

AM644
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216283**

District nun:	1	Api number:	03726119
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	53
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216283		

Map ID
Direction
Distance

Database EDR ID Number

AN645
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213884**

District nun:	1	Api number:	03719134
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	49
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213884		

AN646
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213876**

District nun:	1	Api number:	03719126
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	39
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213876		

AN647
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213873**

District nun:	1	Api number:	03719123
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	35
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213873		

AO648
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213930**

District nun:	1	Api number:	03719180
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Thomas F. Joyce		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Joyce	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213930		

AN649
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213878**

District nun:	1	Api number:	03719128
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	41
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213878		

AN650
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213929**

District nun:	1	Api number:	03719179
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Thomas F. Joyce		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Joyce	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213929		

AN651
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213871**

District nun:	1	Api number:	03719121
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	33
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213871		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AN652
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213928**

District nun:	1	Api number:	03719178
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Thomas F. Joyce		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213928		

AN653
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213870**

District nun:	1	Api number:	03719120
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	32
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213870		

AM654
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215903**

District nun:	1	Api number:	03725738
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	J. Trafton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215903		

AN655
ENE **OIL_GAS** **CAOG11000213877**
1/2 - 1 Mile

District nun:	1	Api number:	03719127
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	40
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213877		

AN656
East **OIL_GAS** **CAOG11000213926**
1/2 - 1 Mile

District nun:	1	Api number:	03719176
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Thomas F. Joyce		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213926		

AN657
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215738**

District nun:	1	Api number:	03725572
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Consolidated Crude Corp.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215738		

AM658
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216428**

District nun:	1	Api number:	03726264
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Jesse Yarnell		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216428		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AM659
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215880**

District nun:	1	Api number:	03725715
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215880		

AN660
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215162**

District nun:	1	Api number:	03723866
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Lee Westlake		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215162		

AN661
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215811**

District nun:	1	Api number:	03725646
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Geo. Geigrich		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215811		

AN662
ENE **OIL_GAS** **CAOG11000213879**
1/2 - 1 Mile

District nun:	1	Api number:	03719129
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	42
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213879		

AM663
West **OIL_GAS** **CAOG11000216266**
1/2 - 1 Mile

District nun:	1	Api number:	03726102
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	60
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216266		

AN664
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215812**

District nun:	1	Api number:	03725647
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Geo. Geigrich		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215812		

AN665
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215163**

District nun:	1	Api number:	03723867
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Lee Westlake		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215163		

Map ID
Direction
Distance

Database EDR ID Number

AM666
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215882**

District nun:	1	Api number:	03725717
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	I. W. Shirley		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215882		

AM667
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216268**

District nun:	1	Api number:	03726104
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	59
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216268		

AN668
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213933**

District nun:	1	Api number:	03719183
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Botiller	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213933		

AM669
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215902**

District nun:	1	Api number:	03725737
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	J. Trafton		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215902		

AN670
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213932**

District nun:	1	Api number:	03719182
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Botiller	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213932		

AP671
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216267**

District nun:	1	Api number:	03726103
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	61
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216267		

AN672
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213866**

District nun:	1	Api number:	03719116
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	28
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213866		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AN673
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213902**

District nun:	1	Api number:	03719152
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	21
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	82
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213902		

AP674
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216265**

District nun:	1	Api number:	03726101
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	62
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216265		

AN675
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213916**

District nun:	1	Api number:	03719166
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	State of California		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Gas Well	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213916		

AM676
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216320**

District nun:	1	Api number:	03726156
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	W. Saunders		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000216320		

AN677
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215740**

District nun:	1	Api number:	03725574
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Consolidated Crude Corp.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215740		

AP678
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216264**

District nun:	1	Api number:	03726100
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	63
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216264		

AP679
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216263**

District nun:	1	Api number:	03726099
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	64
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216263		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AQ680
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216114**

District nun:	1	Api number:	03725949
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Bill Nye Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216114		

AQ681
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213865**

District nun:	1	Api number:	03719115
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	27
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213865		

AP682
West
1/2 - 1 Mile

OIL_GAS **CAOG11000192947**

District nun:	1	Api number:	03718986
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Lonestar Foundation, Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	404.396
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	42207229.ssf		
Leasename:	Tragniew	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192947		

AR683
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215731**

District nun:	1	Api number:	03725565
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Conoco Inc.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1-C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215731		

AP684
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216194**

District nun:	1	Api number:	03726029
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Parker Oil Col		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	14A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000216194		

AS685
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213863**

District nun:	1	Api number:	03719113
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213863		

AS686
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213856**

District nun:	1	Api number:	03719106
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213856		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AP687
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215748**

District nun:	1	Api number:	03725582
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Dr. Lamb		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215748		

AS688
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213943**

District nun:	1	Api number:	03719193
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213943		

AQ689
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213840**

District nun:	1	Api number:	03719090
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Nate Bray (G. N.)		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213840		

AQ690
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213874**

District nun:	1	Api number:	03719124
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	36
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213874		

AQ691
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213867**

District nun:	1	Api number:	03719117
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	29
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213867		

AS692
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215782**

District nun:	1	Api number:	03725616
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Botiller	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215782		

AP693
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216432**

District nun:	1	Api number:	03726268
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Young & Shaw		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216432		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AS694
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215783**

District nun:	1	Api number:	03725617
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Botiller	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215783		

AP695
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216429**

District nun:	1	Api number:	03726265
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Young & Shaw		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216429		

AP696
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215825**

District nun:	1	Api number:	03725660
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215825		

AQ697
ENE **OIL_GAS** **CAOG11000213868**
1/2 - 1 Mile

District nun:	1	Api number:	03719118
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213868		

AS698
East **OIL_GAS** **CAOG11000213941**
1/2 - 1 Mile

District nun:	1	Api number:	03719191
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213941		

AQ699
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215735**

District nun:	1	Api number:	03725569
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Consolidated Crude Corp.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215735		

AQ700
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213869**

District nun:	1	Api number:	03719119
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	31
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213869		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AP701
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216433**

District nun:	1	Api number:	03726269
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Young & Shaw		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216433		

AR702
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215821**

District nun:	1	Api number:	03725656
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215821		

AQ703
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213864**

District nun:	1	Api number:	03719114
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213864		

AS704
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213944**

District nun:	1	Api number:	03719194
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213944		

AQ705
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216113**

District nun:	1	Api number:	03725948
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Nettleton & Kellerman		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Curtis	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216113		

AQ706
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215736**

District nun:	1	Api number:	03725570
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Consolidated Crude Corp.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215736		

AP707
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216407**

District nun:	1	Api number:	03726243
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Whittier Consolidated Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216407		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AS708
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213835**

District nun:	1	Api number:	03719085
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Nate Bray (G. N.)		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213835		

AQ709
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000216112**

District nun:	1	Api number:	03725947
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Nettleton & Kellerman		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Curtis	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216112		

AS710
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213848**

District nun:	1	Api number:	03719098
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213848		

AS711
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213849**

District nun:	1	Api number:	03719099
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213849		

AQ712
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215741**

District nun:	1	Api number:	03725575
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Consolidated Crude Corp.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215741		

AS713
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213947**

District nun:	1	Api number:	03719197
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5-1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213947		

AS714
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213850**

District nun:	1	Api number:	03719100
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213850		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AP715
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216403**

District nun:	1	Api number:	03726239
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Whittier Consolidated Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216403		

AR716
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215822**

District nun:	1	Api number:	03725657
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215822		

AQ717
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000215739**

District nun:	1	Api number:	03725573
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Consolidated Crude Corp.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215739		

AQ718
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213909**

District nun:	1	Api number:	03719159
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	121
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213909		

AP719
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216404**

District nun:	1	Api number:	03726240
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Whittier Consolidated Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216404		

AS720
East
1/2 - 1 Mile

OIL_GAS **CAOG11000215150**

District nun:	1	Api number:	03723854
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Victor Bavario		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Scott	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215150		

AP721
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215830**

District nun:	1	Api number:	03725665
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215830		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AS722
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213847**

District nun:	1	Api number:	03719097
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213847		

AQ723
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213859**

District nun:	1	Api number:	03719109
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213859		

AR724
West
1/2 - 1 Mile

OIL_GAS **CAOG11000213954**

District nun:	1	Api number:	03719204
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Off & Campbell		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213954		

AQ725
ENE **OIL_GAS** **CAOG11000213836**
1/2 - 1 Mile

District nun:	1	Api number:	03719086
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Nate Bray (G. N.)		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213836		

AT726
West **OIL_GAS** **CAOG11000216311**
1/2 - 1 Mile

District nun:	1	Api number:	03726147
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	W. K. Book		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216311		

AT727
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215831**

District nun:	1	Api number:	03725666
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000215831		

AS728
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213858**

District nun:	1	Api number:	03719108
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213858		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AQ729
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213860**

District nun:	1	Api number:	03719110
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213860		

AQ730
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213861**

District nun:	1	Api number:	03719111
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	23
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213861		

AS731
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213851**

District nun:	1	Api number:	03719101
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213851		

AQ732
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213862**

District nun:	1	Api number:	03719112
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	24
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213862		

AT733
West
1/2 - 1 Mile

OIL_GAS **CAOG11000213956**

District nun:	1	Api number:	03719206
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Union Consolidated Crude Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	58
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213956		

AT734
West
1/2 - 1 Mile

OIL_GAS **CAOG11000215172**

District nun:	1	Api number:	03723876
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	H. Rogalske		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215172		

AT735
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216406**

District nun:	1	Api number:	03726242
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Whittier Consolidated Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	20
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216406		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AU736
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213854**

District nun:	1	Api number:	03719104
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213854		

AS737
East
1/2 - 1 Mile

OIL_GAS **CAOG11000213945**

District nun:	1	Api number:	03719195
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	E. A. Doran Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213945		

AU738
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000213853**

District nun:	1	Api number:	03719103
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213853		

AU739
ENE **OIL_GAS** **CAOG11000213855**
1/2 - 1 Mile

District nun:	1	Api number:	03719105
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213855		

AU740
ENE **OIL_GAS** **CAOG11000213852**
1/2 - 1 Mile

District nun:	1	Api number:	03719102
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	C. C. Harris Oil Co.		
County name:	Los Angeles	Fieldname:	Los Angeles City
Area name:	Any Area	Section:	22
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000213852		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90026	39	4

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX III

SUPPORTING DOCUMENTATION

9836002375

418 Firmin St

Los Angeles, CA 90026

Inquiry Number: 4943971.3

May 22, 2017

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

05/22/17

Site Name:	Client Name:
9836002375	EFI Global Inc.
418 Firmin St	5261 West Imperial Highway
Los Angeles, CA 90026	Los Angeles, CA 90045
EDR Inquiry # 4943971.3	Contact: James Johnston

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by EFI Global Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 3222-4670-96FC

PO # NA

Project 9836002375

Maps Provided:

1970	1950
1968	1906
1965	1894
1964	1890
1960	
1957	
1954	
1953	

Sanborn® Library search results

Certification #: 3222-4670-96FC

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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Sanborn Sheet Key

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1970 Source Sheets


Volume 3, Sheet 291
1970

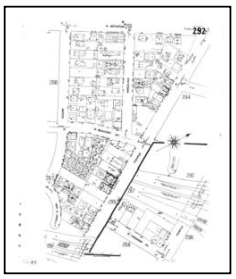

Volume 3, Sheet 292
1970


Volume 3, Sheet 293
1970


Volume 3, Sheet 294
1970

1968 Source Sheets


Volume 3, Sheet 291
1968

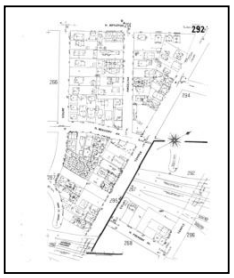

Volume 3, Sheet 292
1968


Volume 3, Sheet 293
1968


Volume 3, Sheet 294
1968

1965 Source Sheets


Volume 3, Sheet 291
1965


Volume 3, Sheet 292
1965


Volume 3, Sheet 293
1965


Volume 3, Sheet 294
1965

1964 Source Sheets


Volume 3, Sheet 291
1964


Volume 3, Sheet 292
1964

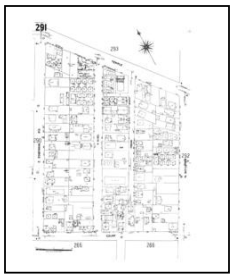

Volume 3, Sheet 293
1964


Volume 3, Sheet 294
1964

Sanborn Sheet Key

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Volume 3, Sheet 291
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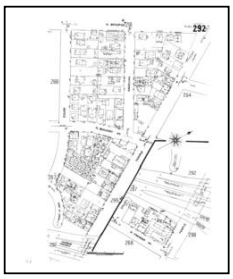

Volume 3, Sheet 292
1960


Volume 3, Sheet 293
1960


Volume 3, Sheet 294
1960

1957 Source Sheets


Volume 3, Sheet 291
1957

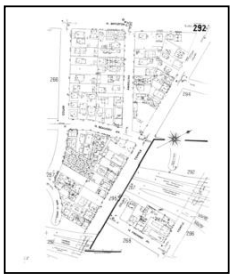

Volume 3, Sheet 292
1957

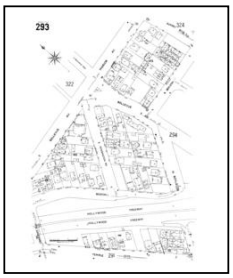

Volume 3, Sheet 293
1957

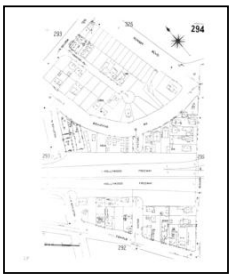

Volume 3, Sheet 294
1957

1954 Source Sheets


Volume 3, Sheet 291
1954


Volume 3, Sheet 292
1954


Volume 3, Sheet 293
1954

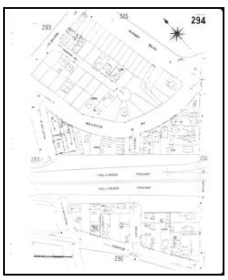

Volume 3, Sheet 294
1954

1953 Source Sheets


Volume 3, Sheet 291
1953


Volume 3, Sheet 292
1953

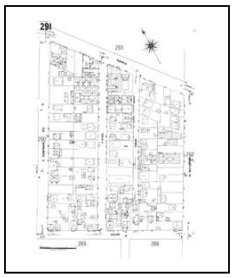

Volume 3, Sheet 293
1953


Volume 3, Sheet 294
1953

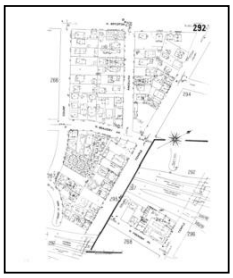
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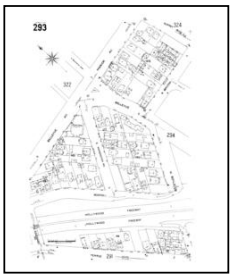
1953 Source Sheets



Volume 3, Sheet 291
1953



Volume 3, Sheet 292
1953



Volume 3, Sheet 293
1953



Volume 3, Sheet 294
1953

1950 Source Sheets



Volume 3, Sheet 291
1950



Volume 3, Sheet 292
1950

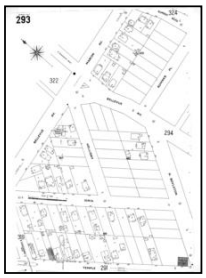


Volume 3, Sheet 293
1950

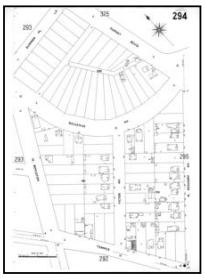


Volume 3, Sheet 294
1950

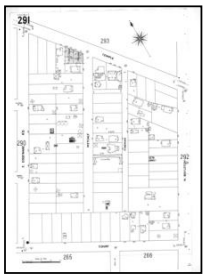
1906 Source Sheets



Volume 3, Sheet 293
1906



Volume 3, Sheet 294
1906



Volume 3, Sheet 291
1906



Volume 3, Sheet 292
1906

1894 Source Sheets



Volume 3, Sheet 120
1894

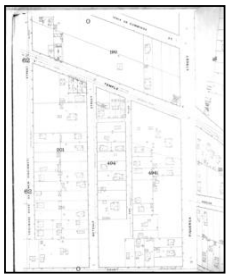


Volume 3, Sheet 120
1894

Sanborn Sheet Key

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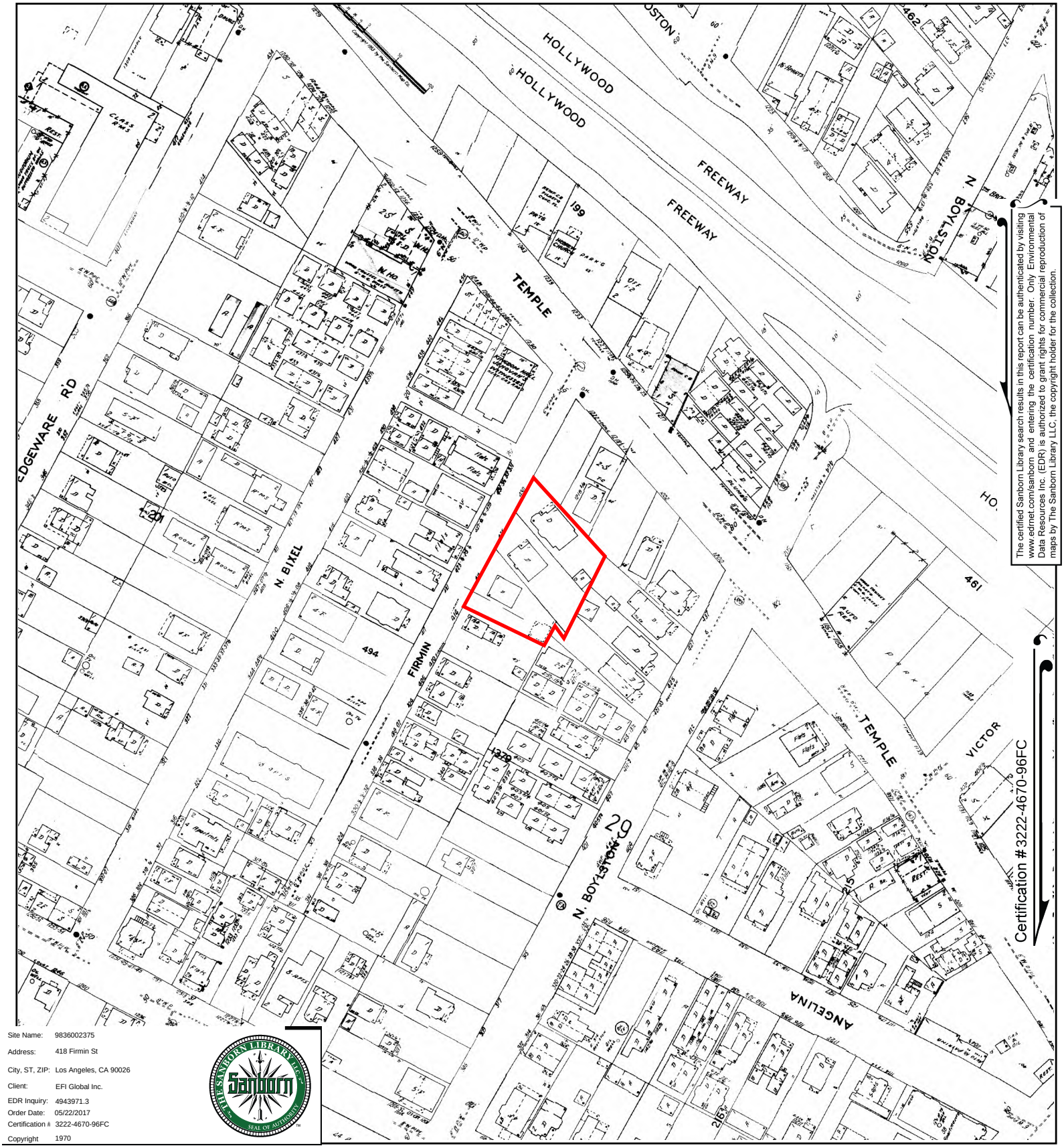
1890 Source Sheets



Volume 2, Sheet 61
1890



Volume 2, Sheet 61
1890



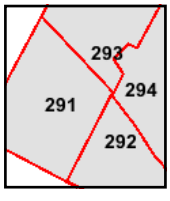
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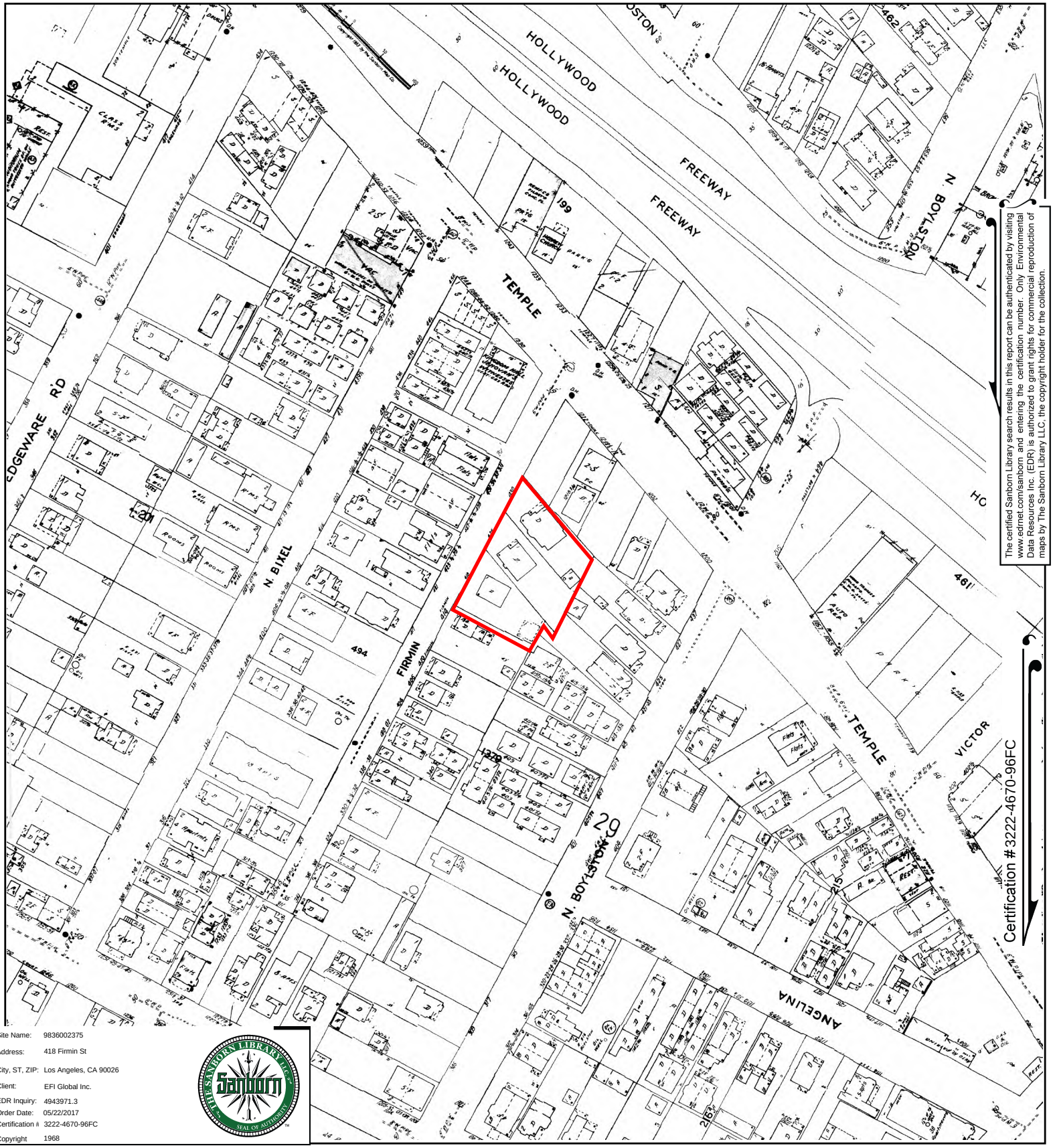
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N

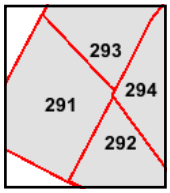


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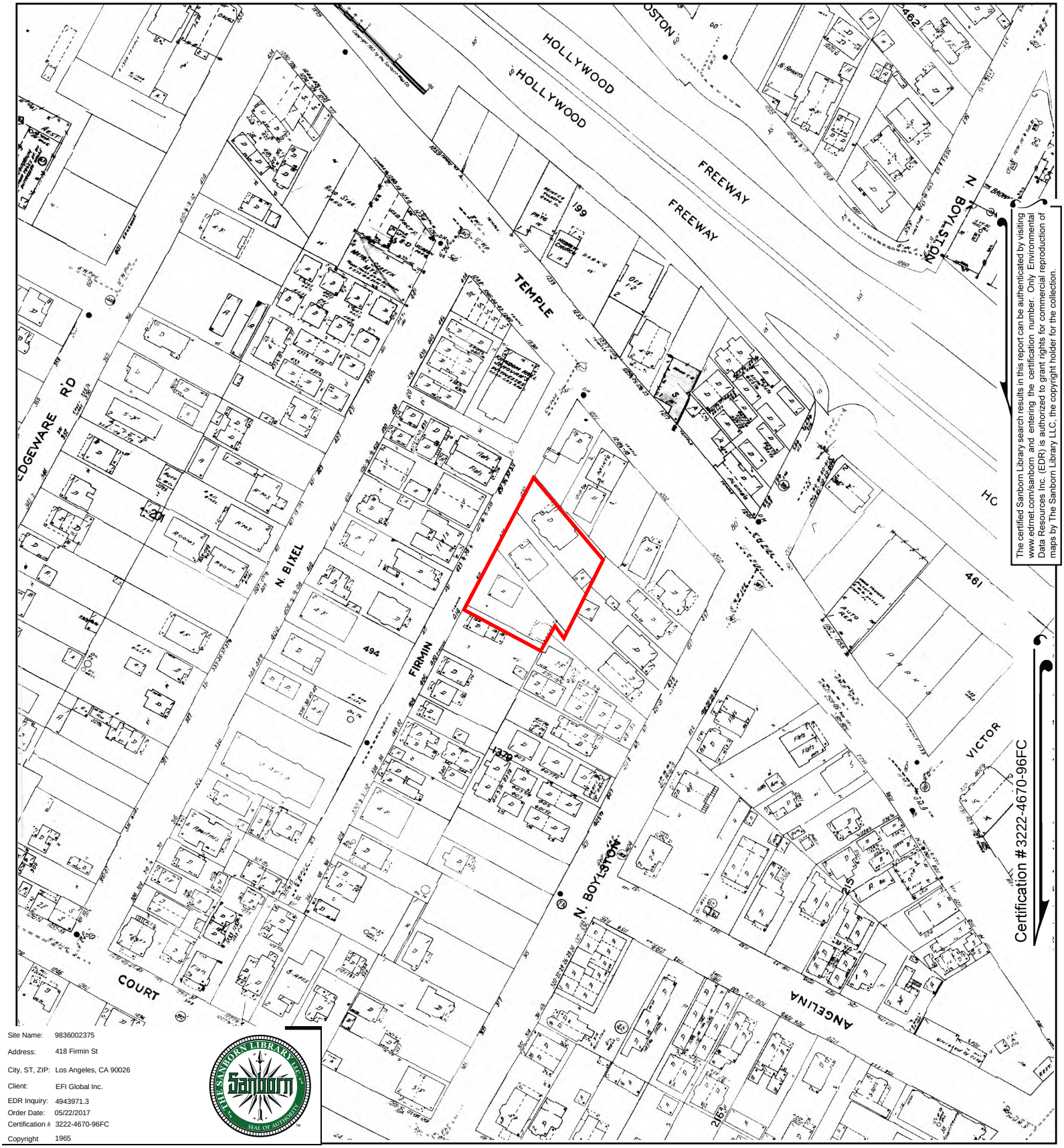




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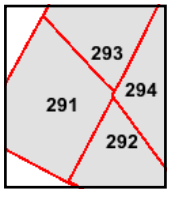
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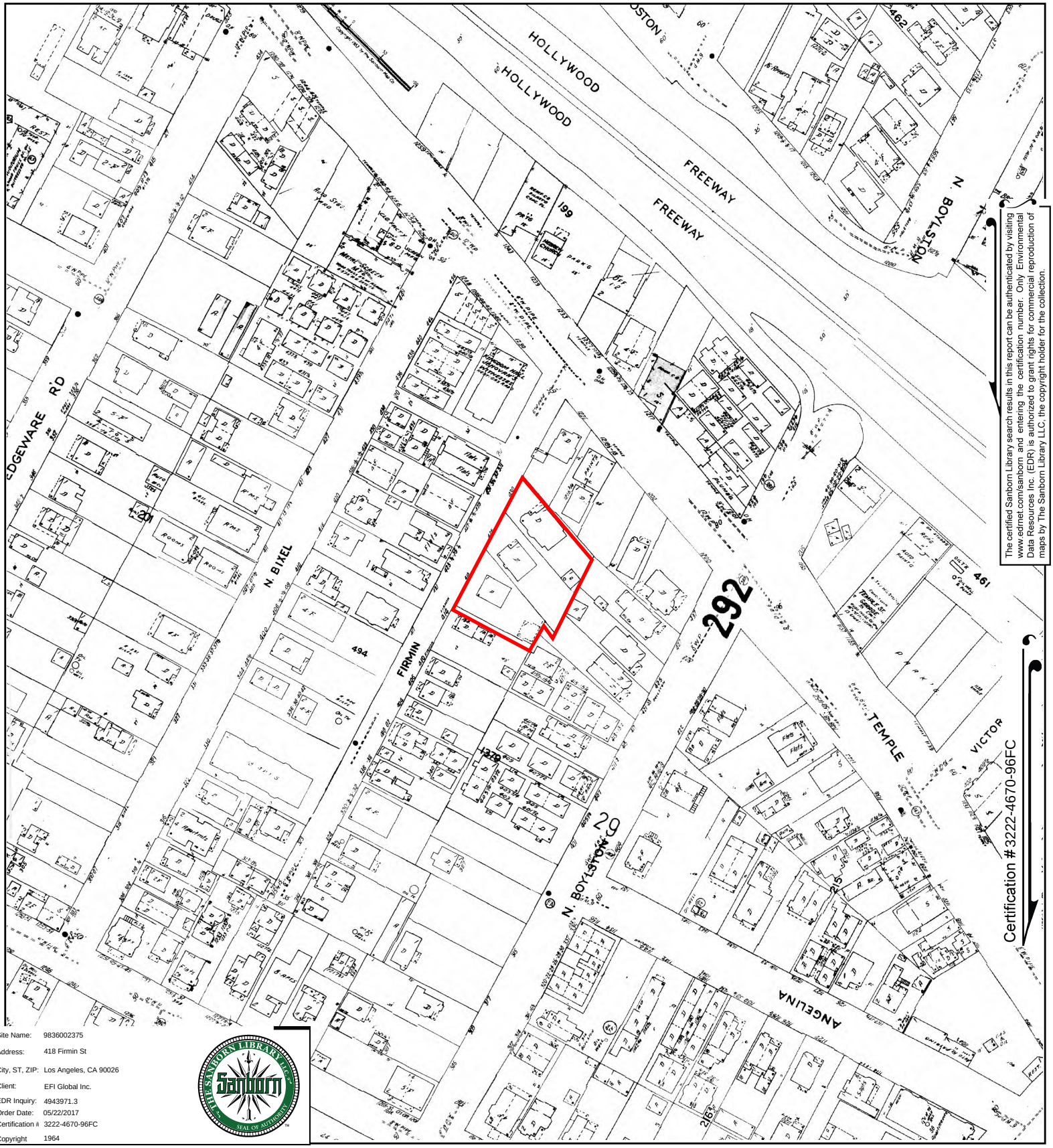
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N

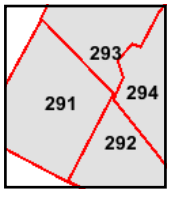


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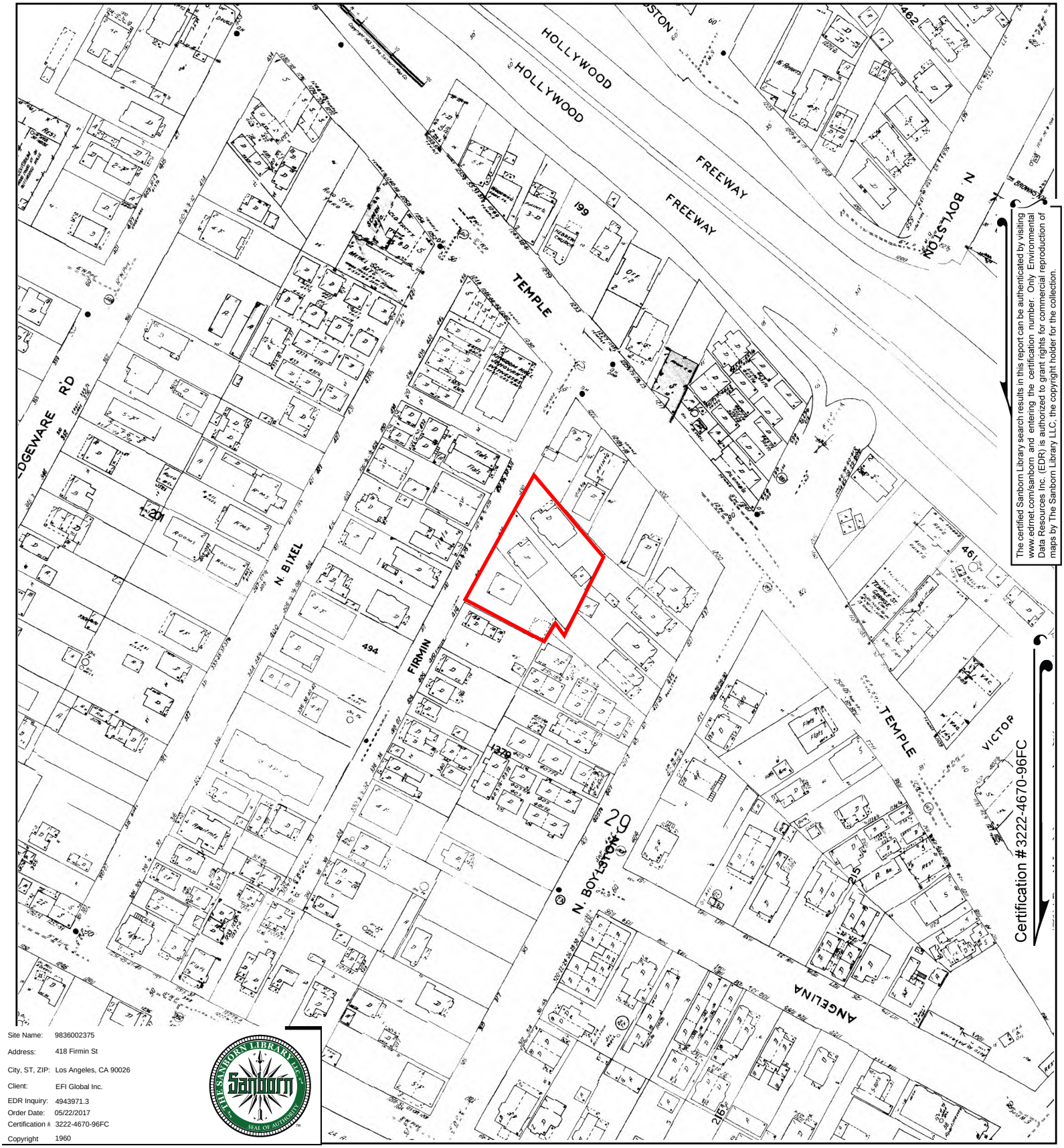




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0 Feet 150 300 600

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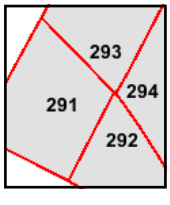


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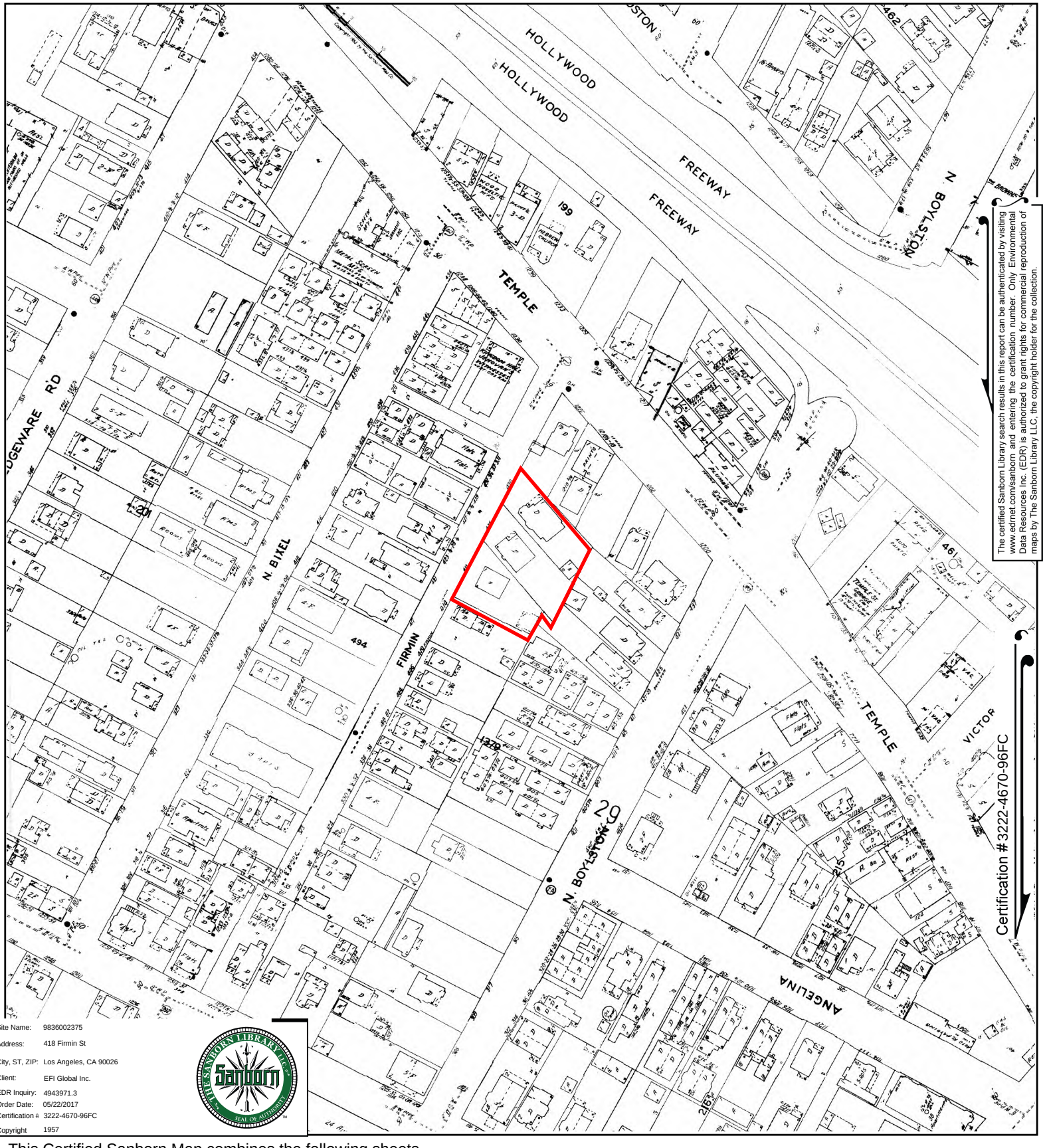
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Certified Sanborn® Map

1957



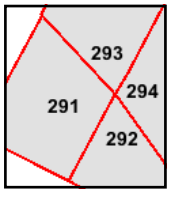
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Copyright	1957

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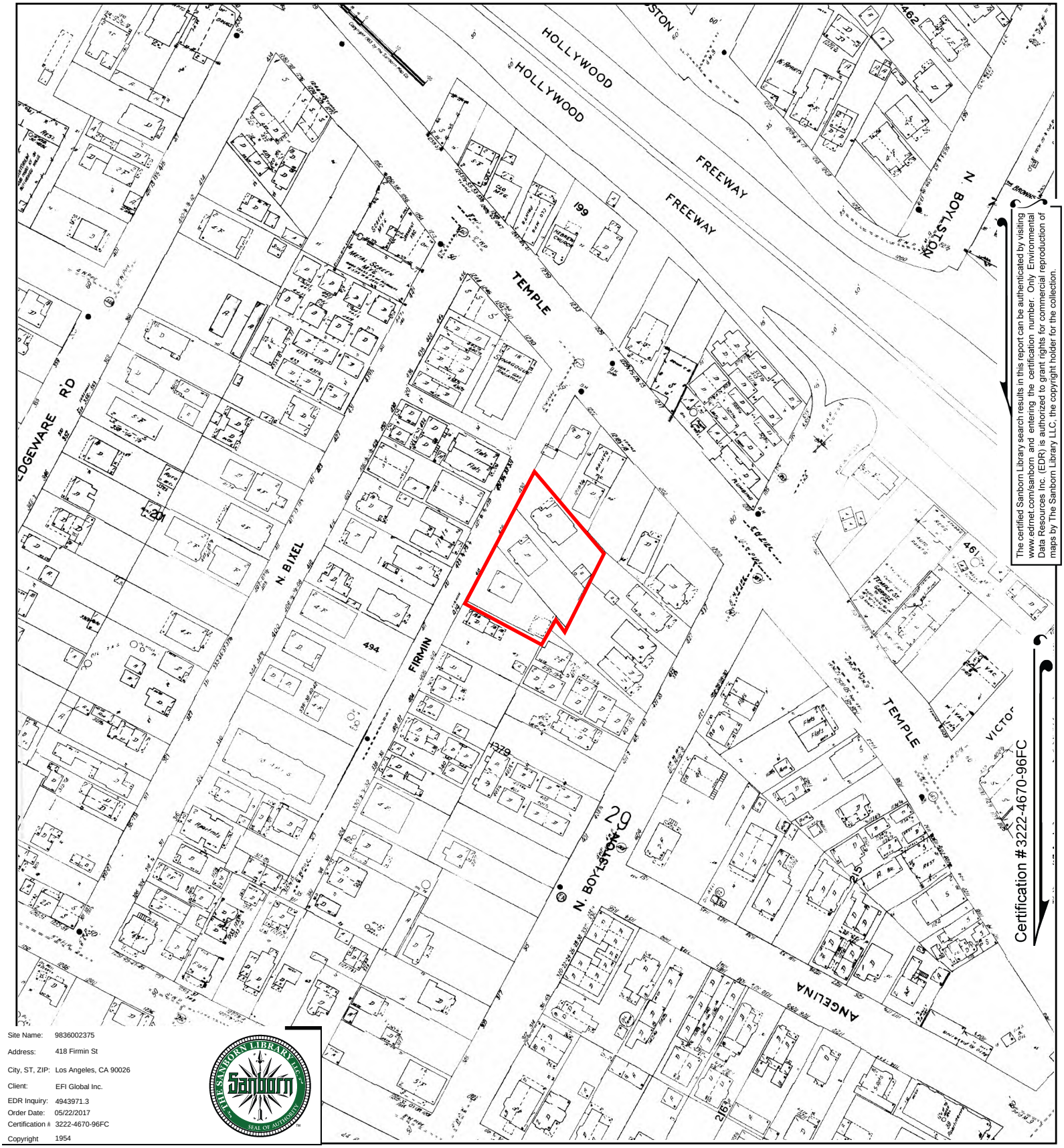
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N

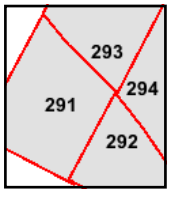


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Copyright	1954

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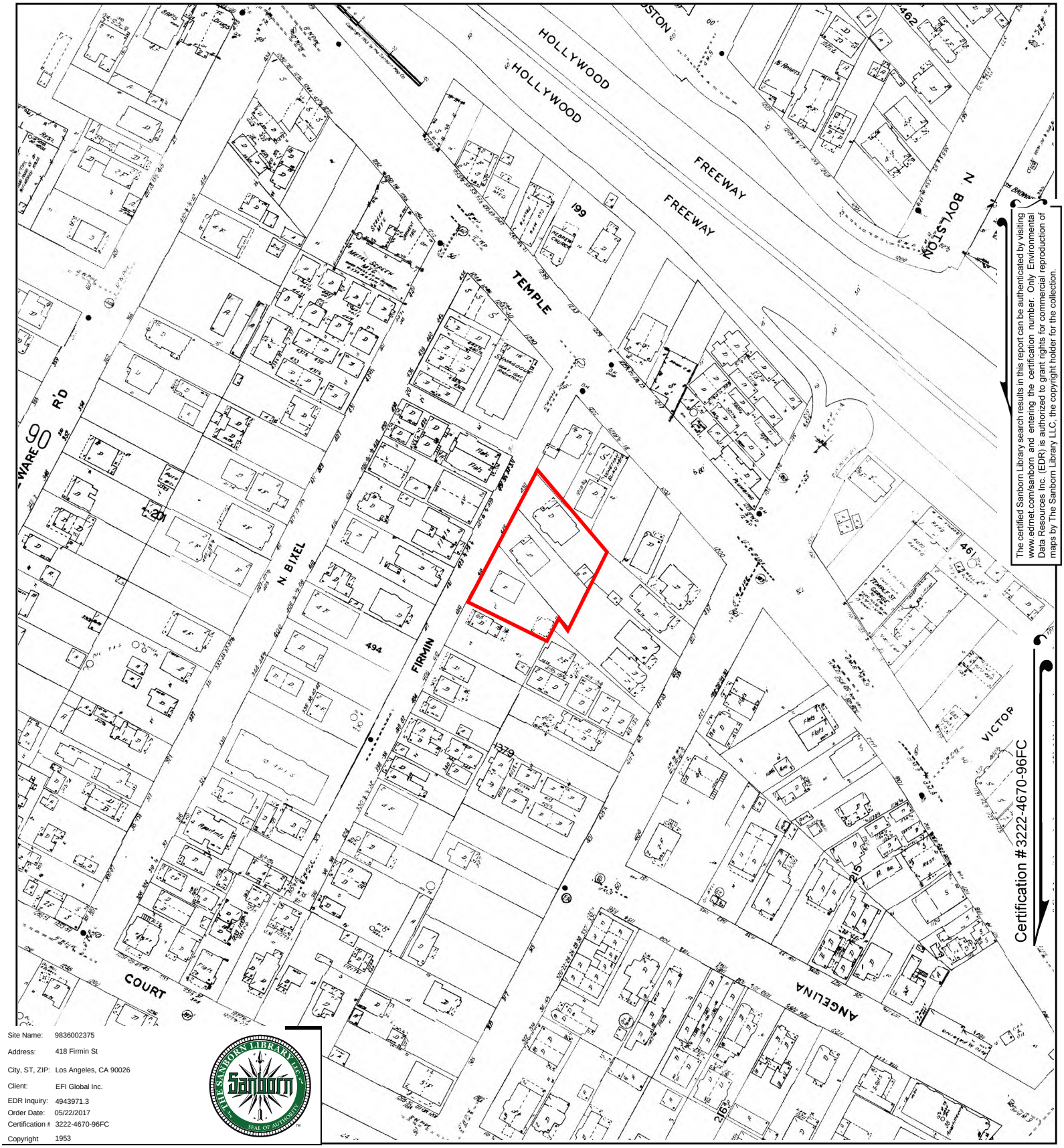




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0 Feet 150 300 600

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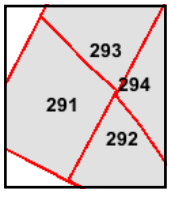
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Certification #:	3222-4670-96FC
Copyright	1953

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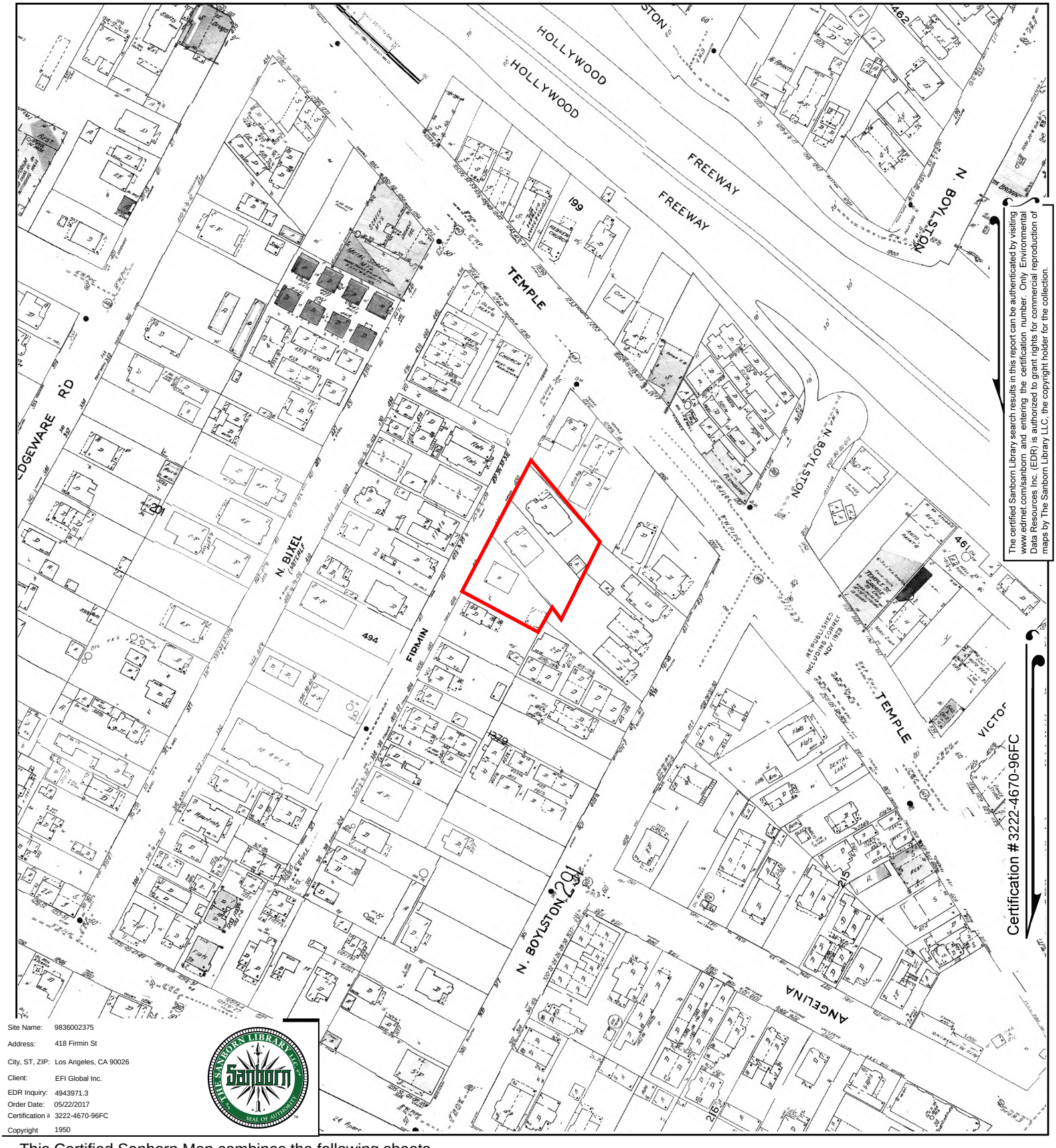
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Volume 3, Sheet 292
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N



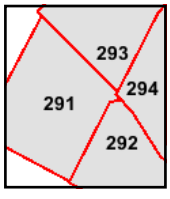
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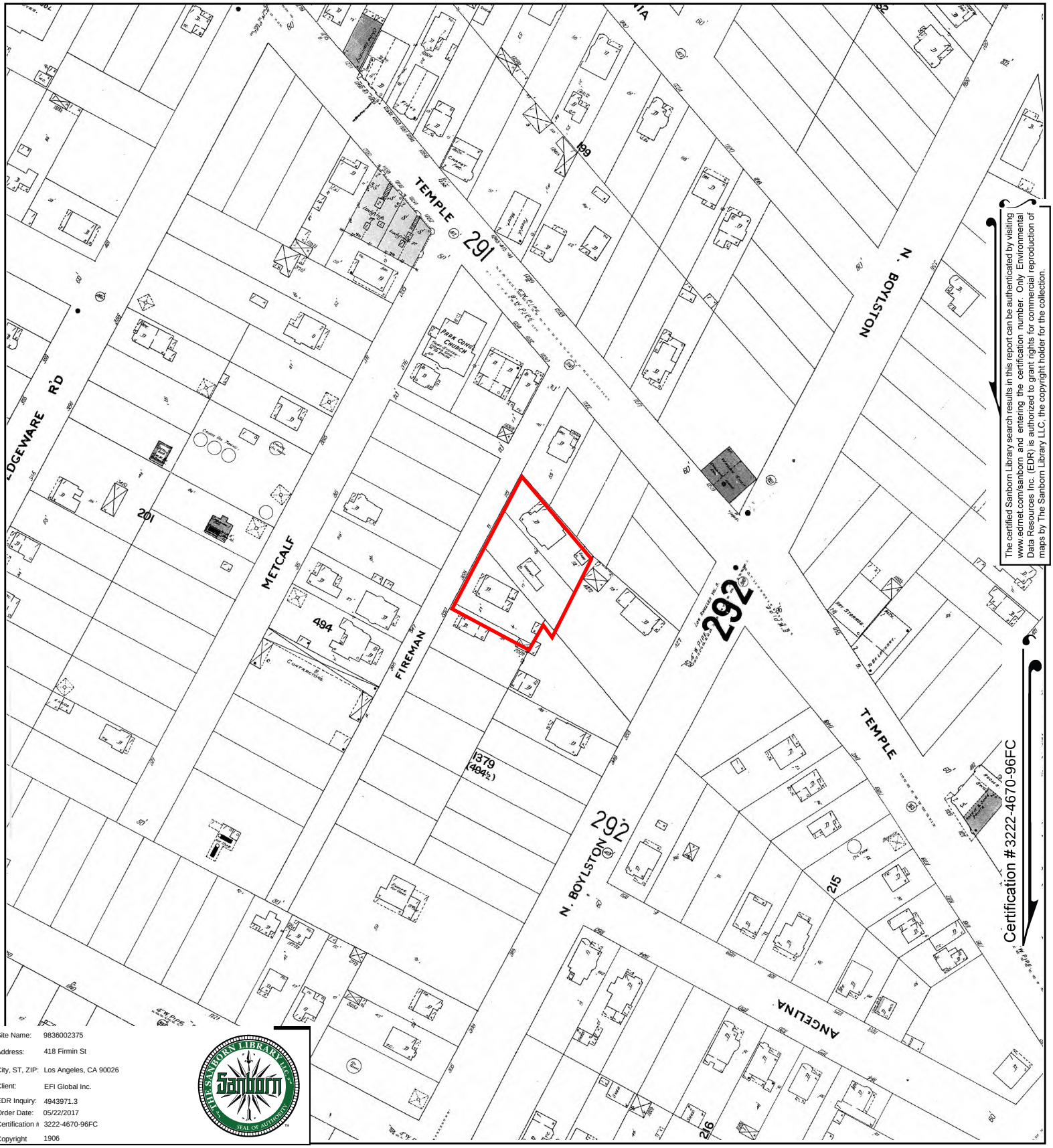
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N



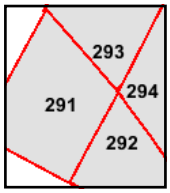
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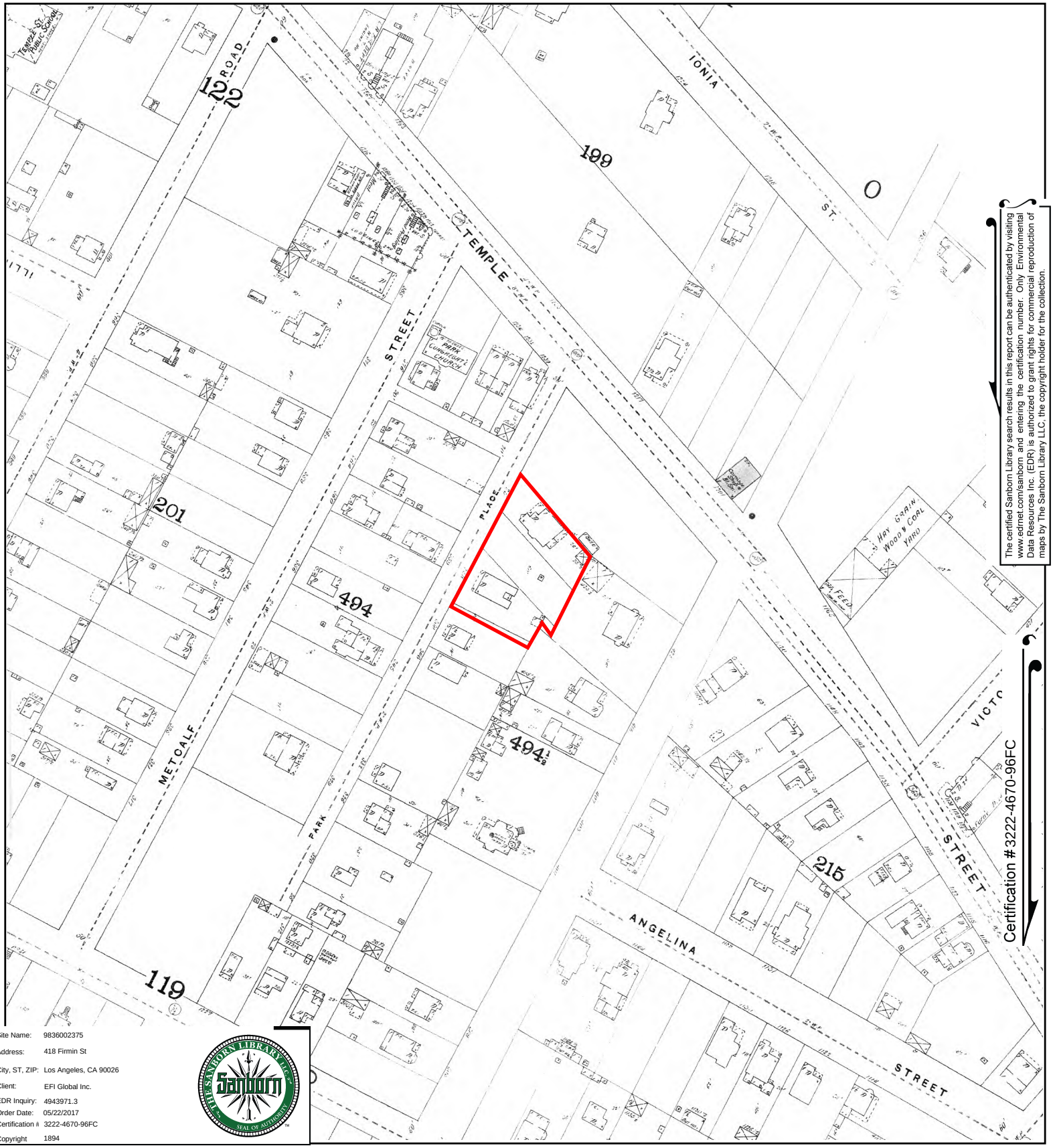




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0 Feet 150 300 600

N

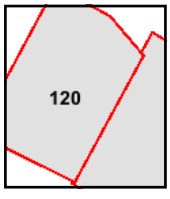


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Site Name: 9836002375
Address: 418 Firmin St
City, ST, ZIP: Los Angeles, CA 90026
Client: EFI Global Inc.
EDR Inquiry: 4943971.3
Order Date: 05/22/2017
Certification #: 3222-4670-96FC
Copyright 1894

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

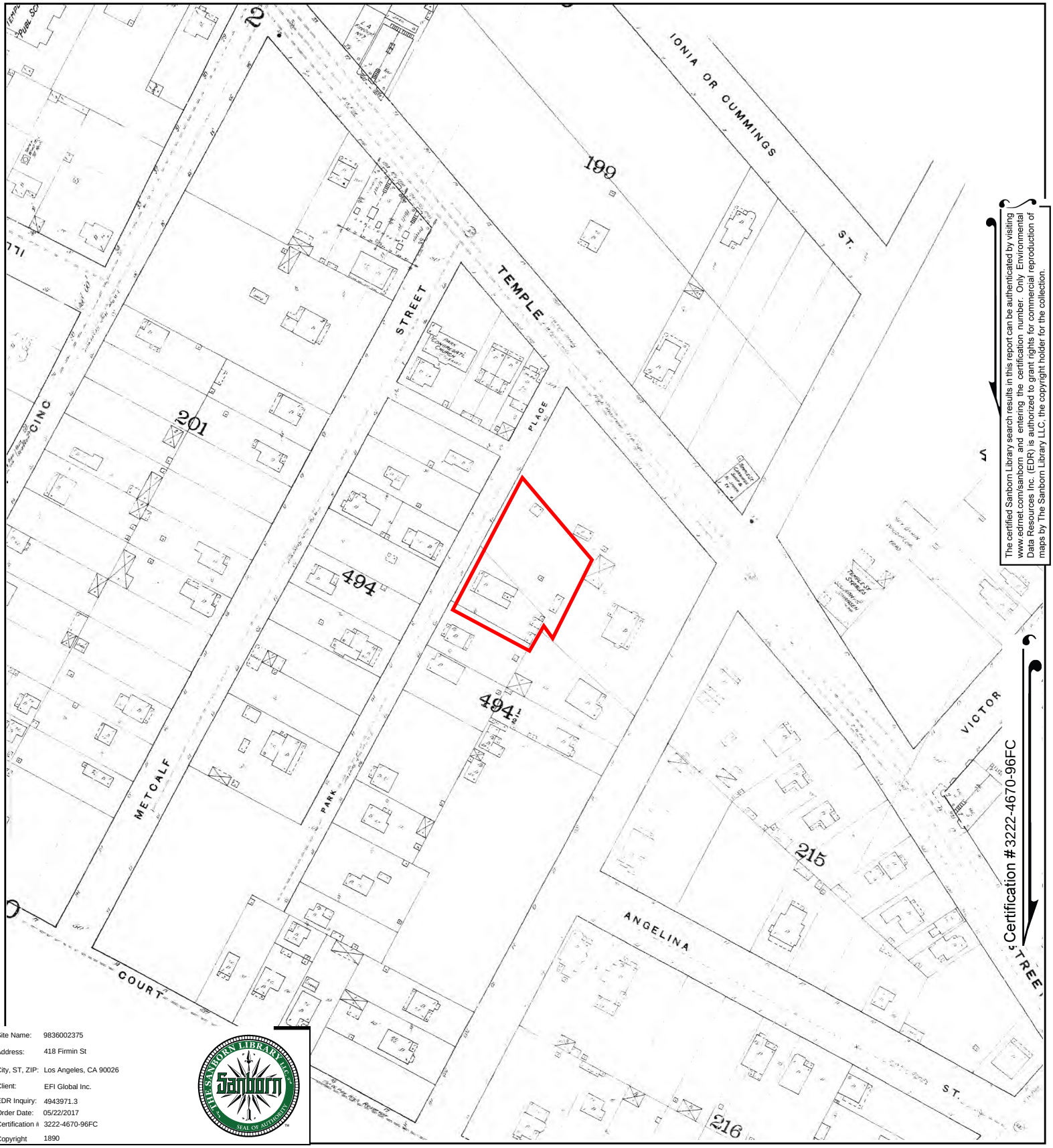




Volume 3, Sheet 120
Volume 3, Sheet 120

0 Feet 150 300 600

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Certification #3222-4670-96FC

Site Name:	9836002375
Address:	418 Firmin St
City, ST, ZIP:	Los Angeles, CA 90026
Client:	EFI Global Inc.
EDR Inquiry:	4943971.3
Order Date:	05/22/2017
Certification #:	3222-4670-96FC
Copyright	1890

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Outlined areas indicate map sheets within the collection.



Volume 2, Sheet 61
Volume 2, Sheet 61

0 Feet 150 300 600

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9836002375
418 Firmin St
Los Angeles, CA 90026

Inquiry Number: 4943971.5
May 22, 2017

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 332 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
2010	EDR Digital Archive	-	X	X	-
2006	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines & Company	-	X	X	-
	Haines & Company	X	X	X	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	-	-	-
1990	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1986	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1985	Pacific Bell	-	-	-	-
1981	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1980	Pacific Telephone	-	-	-	-
1976	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1975	Pacific Telephone	-	-	-	-
1972	R. L. Polk & Co.	-	-	-	-
1971	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1970	Pacific Telephone	-	-	-	-
1969	Pacific Telephone	-	-	-	-
1967	Pacific Telephone	-	X	X	-
1966	Pacific Telephone	-	-	-	-
1965	GTE	-	-	-	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	X	X	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Pacific Telephone & Telegraph Co.	-	X	X	-
	Pacific Telephone & Telegraph Co.	X	X	X	-
1950	Pacific Telephone	-	-	-	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1942	Los Angeles Directory Co.	-	X	X	-
	Los Angeles Directory Co.	X	X	X	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	X	X	-
	Los Angeles Directory Co.	X	X	X	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	X	X	-
	Los Angeles Directory Co.	X	X	X	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	X	X	-
	Los Angeles Directory Co.	X	X	X	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	X	X	-
	Los Angeles Directory Co.	X	X	X	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
426 Firmin St	Client Entered	X
430 Firmin St	Client Entered	X
414 Firmin St	Client Entered	X
423 Firmin St	Client Entered	X
413 N Boylston St	Client Entered	X
430 N Bixel St	Client Entered	X
1222 W Temple St	Client Entered	X
1230 W Temple St	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

418 Firmin St
Los Angeles, CA 90026

FINDINGS DETAIL

Target Property research detail.

FIRMIN

418 FIRMIN

Year	Uses	Source
1990	GUTIERREZ THOS F	Pacific Bell
1986	GUTIERREZ THOS F	Pacific Bell
1981	GUTIERREZ THOS F	Pacific Telephone
1971	Gutierrez Thos F	Pacific Telephone
1942	Del Prino Evelyn	Los Angeles Directory Co.
	Del Prino Pauline Mrs lndywkr	Los Angeles Directory Co.
	Ferrero Marguerite Mrs	Los Angeles Directory Co.
1937	Ferrero Peter Norma baker	Los Angeles Directory Co.
1933	Druyun Irving lab	Los Angeles Directory Co.
	Druyun Saml jan City Bd of Educ	Los Angeles Directory Co.
	Druyun Wolf Anna uphol	Los Angeles Directory Co.
1929	Druin Wolff Annie uphol	Los Angeles Directory Co.
1924	GOLDBERG Id A bndywkr r	Los Angeles Directory Co.
	GOLDBERG Meyer pdlr h	Los Angeles Directory Co.

430 FIRMIN

Year	Uses	Source
1990	JUATCO MANUEL	Pacific Bell
1981	JUATCO JESUSA M	Pacific Telephone
1942	BAKER Mary F Mrs	Los Angeles Directory Co.
	JONES Harry R Jessie L slsmn	Los Angeles Directory Co.
	JONES Theo L shtmtlwkr	Los Angeles Directory Co.
1937	BAKER Mary F Mrs	Los Angeles Directory Co.
	JONES Harry R Jessie L	Los Angeles Directory Co.
	JONES Theo L USA	Los Angeles Directory Co.
1933	BAKER Mollie F	Los Angeles Directory Co.
	Jones Aileen H sten	Los Angeles Directory Co.

FINDINGS

Year	Uses	Source
1933	JONES Harry R Jessie L slsmn	Los Angeles Directory Co.
1929	JONES Aileen M	Los Angeles Directory Co.
	JONES Harry R Jessie L real est	Los Angeles Directory Co.
1924	BAKER Mary F wid John r	Los Angeles Directory Co.
	JONES Harry R bkpr Civil Dept L A County h	Los Angeles Directory Co.

FIRMIN ST

418 FIRMIN ST

Year	Uses	Source
2006	DEFILIPPO EBizabeth	Haines Company, Inc.
	DEVERLuke	Haines Company, Inc.
2000	GUTIERREZ Thos F	Haines & Company
1976	Gutierrez Thos F	Pacific Telephone

426 FIRMIN ST

Year	Uses	Source
2000	XXXX	Haines & Company

Firmin St

426 Firmin St

Year	Uses	Source
2000	XXXX	Haines & Company

FIRMIN ST

426 FIRMIN ST

Year	Uses	Source
1976	Drabin Morris	Pacific Telephone

Firmin St

426 Firmin St

Year	Uses	Source
1976	Drabin Morris	Pacific Telephone

FINDINGS

FIRMIN ST

430 FIRMIN ST

Year	*Uses*	*Source*
2006	JUATCO Jesusa	Haines Company, Inc.

Firmin St

430 Firmin St

Year	*Uses*	*Source*
2006	JUATCO Jesusa	Haines Company, Inc.

FIRMIN ST

430 FIRMIN ST

Year	*Uses*	*Source*
2000	JUATCO Jesusa	Haines & Company

Firmin St

430 Firmin St

Year	*Uses*	*Source*
2000	JUATCO Jesusa	Haines & Company
1990	JUATCO MANUEL	Pacific Bell
1981	JUATCO JESUSA M	Pacific Telephone

FIRMIN ST

430 FIRMIN ST

Year	*Uses*	*Source*
1958	Jones Jessie L	Pacific Telephone

Firmin St

430 Firmin St

Year	*Uses*	*Source*
1958	Jones Jessie L	Pacific Telephone

FINDINGS

FIRMIN ST

430 FIRMIN ST

Year	*Uses*	*Source*
1951	Firmn Jones Harry R r	Pacific Telephone & Telegraph Co.

Firmin St

430 Firmin St

Year	*Uses*	*Source*
1951	Firmn Jones Harry R r	Pacific Telephone & Telegraph Co.
1942	BAKER Mary F Mrs	Los Angeles Directory Co.
	JONES Harry R Jessie L slsmn	Los Angeles Directory Co.
	JONES Theo L shtmtlwkr	Los Angeles Directory Co.
1937	BAKER Mary F Mrs	Los Angeles Directory Co.
	JONES Harry R Jessie L	Los Angeles Directory Co.
	JONES Theo L USA	Los Angeles Directory Co.
1933	BAKER Mollie F	Los Angeles Directory Co.
	Jones Aileen H sten	Los Angeles Directory Co.
	JONES Harry R Jessie L slsmn	Los Angeles Directory Co.
1929	JONES Aileen M	Los Angeles Directory Co.
	JONES Harry R Jessie L real est	Los Angeles Directory Co.
1924	BAKER Mary F wid John r	Los Angeles Directory Co.
	JONES Harry R bkpr Civil Dept L A County h	Los Angeles Directory Co.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BIXEL ST N

406 BIXEL ST N

Year	Uses	Source
1951	N Bixl Jackson Willie	Pacific Telephone & Telegraph Co.

407 BIXEL ST N

Year	Uses	Source
1951	N Bixl North Bixel St Hotel	Pacific Telephone & Telegraph Co.

408 BIXEL ST N

Year	Uses	Source
1951	N Bixl Brooks Eddie Lee r	Pacific Telephone & Telegraph Co.

410 BIXEL ST N

Year	Uses	Source
1951	N Bixl Montes Lauro r	Pacific Telephone & Telegraph Co.

411 BIXEL ST N

Year	Uses	Source
1951	N Bixl North Bixel St Hotel	Pacific Telephone & Telegraph Co.

416 BIXEL ST N

Year	Uses	Source
1951	N Bixel Ballen Eda r	Pacific Telephone & Telegraph Co.

419 BIXEL ST N

Year	Uses	Source
1951	Pizzo Stephen r	Pacific Telephone & Telegraph Co.
	N Bixl	Pacific Telephone & Telegraph Co.
	Bing S Louie r	Pacific Telephone & Telegraph Co.

420 BIXEL ST N

Year	Uses	Source
1951	N Bixl Torres Irene Daniels r	Pacific Telephone & Telegraph Co.

FINDINGS

426 BIXEL ST N

Year	Uses	Source
1951	N Bixl Robinson Essie r	Pacific Telephone & Telegraph Co.
	N Bixl Levin M r	Pacific Telephone & Telegraph Co.

427 BIXEL ST N

Year	Uses	Source
1951	N Bixel Degele Wm r	Pacific Telephone & Telegraph Co.

428 BIXEL ST N

Year	Uses	Source
1951	N Bixl Glick Abram r	Pacific Telephone & Telegraph Co.
	N Bixl Saulsbury Ruby r	Pacific Telephone & Telegraph Co.

430 BIXEL ST N

Year	Uses	Source
1951	N Bixl Licudan Ulpiano r	Pacific Telephone & Telegraph Co.

431 BIXEL ST N

Year	Uses	Source
1951	N Bixl Bashore T R r	Pacific Telephone & Telegraph Co.

432 BIXEL ST N

Year	Uses	Source
1951	N Bixl Alegata Emil r	Pacific Telephone & Telegraph Co.
	N Bixl Martinez Segundo A r	Pacific Telephone & Telegraph Co.

433 BIXEL ST N

Year	Uses	Source
1951	N Bixl La Shells Jas E r	Pacific Telephone & Telegraph Co.

434 BIXEL ST N

Year	Uses	Source
1951	N Bixl Passion Angelo r	Pacific Telephone & Telegraph Co.

435 BIXEL ST N

Year	Uses	Source
1951	N Bixl Johansen Donald R r	Pacific Telephone & Telegraph Co.

436 BIXEL ST N

Year	Uses	Source
1951	N Bixl Ballestra Aniceto B r	Pacific Telephone & Telegraph Co.

FINDINGS

437 BIXEL ST N

Year	Uses	Source
1951	N Bixl Hayden Chas E	Pacific Telephone & Telegraph Co.

438 BIXEL ST N

Year	Uses	Source
1951	N Bixl Sindayin Francisco	Pacific Telephone & Telegraph Co.

439 BIXEL ST N

Year	Uses	Source
1951	N Bixl Iverson Norman	Pacific Telephone & Telegraph Co.
	N Bixl McGowan Jerry r	Pacific Telephone & Telegraph Co.

440 BIXEL ST N

Year	Uses	Source
1951	N Bixl Duran Jas V r	Pacific Telephone & Telegraph Co.

441 BIXEL ST N

Year	Uses	Source
1951	N Bixl Cooper R H r	Pacific Telephone & Telegraph Co.
	N Bixl Treadway J R	Pacific Telephone & Telegraph Co.

442 BIXEL ST N

Year	Uses	Source
1951	N Bixl Navarro Henry r	Pacific Telephone & Telegraph Co.

443 BIXEL ST N

Year	Uses	Source
1951	N Bixl Frank Jean A r	Pacific Telephone & Telegraph Co.

445 BIXEL ST N

Year	Uses	Source
1951	N Bixl Baumgartner John r	Pacific Telephone & Telegraph Co.
	N Bixl Coash Marion	Pacific Telephone & Telegraph Co.

447 BIXEL ST N

Year	Uses	Source
1951	N Bixl Oliver Oran E r	Pacific Telephone & Telegraph Co.

FINDINGS

BOYLSTON ST N

404 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Andrews Edith Mrs r	Pacific Telephone & Telegraph Co.

405 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Hickey Chas E r	Pacific Telephone & Telegraph Co.
	N Boylstn Hermann Lewis Mrs r	Pacific Telephone & Telegraph Co.

406 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Topf Saml r	Pacific Telephone & Telegraph Co.

411 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Feinstein Mollie r	Pacific Telephone & Telegraph Co.

412 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Segelbaum Harry r	Pacific Telephone & Telegraph Co.

414 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Bernstein Sidney r	Pacific Telephone & Telegraph Co.

415 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Mc Mahon Thos E r	Pacific Telephone & Telegraph Co.
	N Boylstn Castellaw Margaret r	Pacific Telephone & Telegraph Co.

417 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Liles G D r	Pacific Telephone & Telegraph Co.

422 BOYLSTON ST N

Year	Uses	Source
1951	Martinez Antonio	Pacific Telephone & Telegraph Co.
	N Boylstn	Pacific Telephone & Telegraph Co.
	N Boylstn Jauregui Serafina	Pacific Telephone & Telegraph Co.

FINDINGS

423 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Gutierrez Felicia Mrs r	Pacific Telephone & Telegraph Co.

424 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Davis Alma V Mrs r	Pacific Telephone & Telegraph Co.

426 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Howes E John r	Pacific Telephone & Telegraph Co.

427 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Salas Ted R r	Pacific Telephone & Telegraph Co.

428 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn De Lapuente Emilia r	Pacific Telephone & Telegraph Co.

430 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Beach B Cornel r	Pacific Telephone & Telegraph Co.

437 BOYLSTON ST N

Year	Uses	Source
1951	N Boylstn Delgado Zenaida r	Pacific Telephone & Telegraph Co.

FIRMIN

316 FIRMIN

Year	Uses	Source
1990	SALCIDO GABINO	Pacific Bell
1942	Lasater Edw gdnr	Los Angeles Directory Co.
	Lasater Priscilla typist	Los Angeles Directory Co.
	Lasater Lillian wid J E	Los Angeles Directory Co.
1937	Terry Nora Mrs	Los Angeles Directory Co.
1933	STUMP Effie J wid L K	Los Angeles Directory Co.
	STUMP Eliz G sten	Los Angeles Directory Co.
	STUMP Ida V dental asst F W Stockton	Los Angeles Directory Co.
1929	CURTIN John T lawyer	Los Angeles Directory Co.

FINDINGS

321 FIRMIN

Year	Uses	Source
1986	LIM THOEUNG	Pacific Bell
1971	Sanchez Marcos	Pacific Telephone
1942	CASTILLO Ireo Margt baker	Los Angeles Directory Co.
1933	JACOBS Lena Mrs	Los Angeles Directory Co.
1929	Doctor Hyman Sarah slsmn L A Disinfectant Co	Los Angeles Directory Co.
1924	MORRISON John uphol h	Los Angeles Directory Co.
	MORRISON Jacob upholstr h	Los Angeles Directory Co.

323 FIRMIN

Year	Uses	Source
1990	FLORES TERESA	Pacific Bell
1986	NEANG REPH	Pacific Bell
1981	MEJIA JUANA JULIA	Pacific Telephone
1971	Ornelas Macedonio	Pacific Telephone
1942	ANDERSON Eli H Dorothy	Los Angeles Directory Co.
1937	Kaminar Jean	Los Angeles Directory Co.
	Kaminar Beth sten Broadway Dept Store	Los Angeles Directory Co.
	CONWAY Walter	Los Angeles Directory Co.
1933	Zauss Saml Mary slsmn	Los Angeles Directory Co.
1929	LEVY Fay Mrs L A Disinfectant Co	Los Angeles Directory Co.
	LEVY EDWARD Fay Manager Southside Office Pacific National Bank of Los Angeles	Los Angeles Directory Co.
	Doctor Benj Rebecca lab	Los Angeles Directory Co.
1924	Doctor Benj lab h	Los Angeles Directory Co.
	Doctor Fay bkpr r	Los Angeles Directory Co.

324 FIRMIN

Year	Uses	Source
1990	CHAVARRIA JOSE LUIS	Pacific Bell
1942	BROOKS Talbot W Golda L uphol	Los Angeles Directory Co.
	HEARNE Zada wid Henry	Los Angeles Directory Co.
1937	Bergsma Nick Emma Nick & Bill Garage	Los Angeles Directory Co.
1933	SMITH Albt E Jewell welder	Los Angeles Directory Co.
	Penry Mary	Los Angeles Directory Co.
1929	SMITH Albt E Jewel blksmth h	Los Angeles Directory Co.
1924	SHAFFER Minnie wid Geo h	Los Angeles Directory Co.

FINDINGS

342 FIRMIN

Year	Uses	Source
1986	RODRIGUEZ TOMAS	Pacific Bell
1967	Ramirez Jose A	Pacific Telephone
1942	Rodriguez Chas Colleen	Los Angeles Directory Co.
1929	Mora Ramona J wid Chas	Los Angeles Directory Co.
1924	GORDON Abraham cap mkr h	Los Angeles Directory Co.

344 FIRMIN

Year	Uses	Source
1981	MENA ROBT N	Pacific Telephone
1967	Ortiz Ray	Pacific Telephone
1942	Mc Culvey Arth Margie	Los Angeles Directory Co.
1937	Lorenzana John Margt chauf	Los Angeles Directory Co.
1933	Sarmento Peter Frances pugilist	Los Angeles Directory Co.
1929	GREENBERG Jacob Lilly barber	Los Angeles Directory Co.
	Vinitzker Flora clo fnshr r	Los Angeles Directory Co.
1924	LIPSON Wm ins h	Los Angeles Directory Co.

400 FIRMIN

Year	Uses	Source
1986	RODRIGUEZ TOMES SALES	Pacific Bell
1971	Rodriguez Tomas Salas	Pacific Telephone
1942	Rodriguez Thos Cecelia lab	Los Angeles Directory Co.
1937	ALEXANDER Honie	Los Angeles Directory Co.
	TUCKER Ruth	Los Angeles Directory Co.
1933	Mahi Saml K Amy mach	Los Angeles Directory Co.
1929	Ocampo Sayong Irene lab	Los Angeles Directory Co.
1924	Krupin Anna h	Los Angeles Directory Co.

402 FIRMIN

Year	Uses	Source
1986	GONZALEZ RAFAEL GALLEGOS	Pacific Bell
1981	GONZALEZ RAFAEL GALLEGOS	Pacific Telephone
1971	Verhaegen Edith	Pacific Telephone
	Verhaegen Louis	Pacific Telephone
1937	Pongos Saml Felicitas jan	Los Angeles Directory Co.
1933	GONZALES Leonardo Mae B lab	Los Angeles Directory Co.
1929	Daniels A Robt Julia H chauf	Los Angeles Directory Co.
1924	Dolkart Wm M insp City Eng h	Los Angeles Directory Co.

FINDINGS

Year	Uses	Source
1924	GORDON Michl ctr r	Los Angeles Directory Co.

404 FIRMIN

Year	Uses	Source
1986	TANG MENG	Pacific Bell
1981	PEREZ FELIX	Pacific Telephone

406 FIRMIN

Year	Uses	Source
1990	MEDINA LUIS	Pacific Bell
1986	MEDINA LUIS	Pacific Bell
1981	GOLDRING BERTHA	Pacific Telephone
1971	Goldring Bertha	Pacific Telephone
1942	Wolfsthal Rose smstrs	Los Angeles Directory Co.
	GOLDRING Mary Mrs	Los Angeles Directory Co.
	Wolfstahl Rose I fctywkr	Los Angeles Directory Co.
1937	Goldring Mary Mrs	Los Angeles Directory Co.
	Goldring Bertha	Los Angeles Directory Co.
1929	Goldring Bertha clk	Los Angeles Directory Co.
	Goldring Mary Mrs	Los Angeles Directory Co.
	Goldring Victor clk	Los Angeles Directory Co.
1924	h	Los Angeles Directory Co.
	Greenan Benj watchmkr h	Los Angeles Directory Co.
	Goldring Victor clk r	Los Angeles Directory Co.

410 FIRMIN

Year	Uses	Source
1990	MENA CONNIE	Pacific Bell
1981	GARCIA RUBY	Pacific Telephone
1971	Garcia Ruby	Pacific Telephone
1967	Garcia Ruby	Pacific Telephone
1942	LEVIN Bessie Mrs	Los Angeles Directory Co.
	LEVIN Jack fermn U S Bag & Supp Co	Los Angeles Directory Co.
	Tieger Max R music tchr	Los Angeles Directory Co.
	Weckstein Leon clk	Los Angeles Directory Co.
1937	LEVINE Bessie Mrs	Los Angeles Directory Co.
	LEVINE Jack	Los Angeles Directory Co.
1933	Kosherlevitz Pearl	Los Angeles Directory Co.
	LEVIN Charlotte G sten	Los Angeles Directory Co.

FINDINGS

Year	Uses	Source
1933	LEVIN Gussie clk	Los Angeles Directory Co.
	LEVIN Jack	Los Angeles Directory Co.
	LEVIN Bessie wid A I gro	Los Angeles Directory Co.
1929	SACHS Wm Anna plstr h	Los Angeles Directory Co.
1924	Berumen Fidel clk h	Los Angeles Directory Co.

411 FIRMIN

Year	Uses	Source
1986	HIDALGO MARIBEL	Pacific Bell
1981	AMADOR JUAN	Pacific Telephone

417 FIRMIN

Year	Uses	Source
1986	CUONG CHAU	Pacific Bell
1981	SCARSELLA CARL	Pacific Telephone
	DYKE TIB VAN	Pacific Telephone
1942	Kelb Abr Katie locksmith	Los Angeles Directory Co.
1933	Stark Adolf tailor	Los Angeles Directory Co.
	STOCK Adolph tailor	Los Angeles Directory Co.
	Keld Abr Katie locksmith	Los Angeles Directory Co.
1929	Kelb Abr Katie lockmith	Los Angeles Directory Co.
	Addleson Jack L clk	Los Angeles Directory Co.
1924	Dickman Adolph clk r	Los Angeles Directory Co.
	Dickman David slsmn r	Los Angeles Directory Co.

421 FIRMIN

Year	Uses	Source
1990	CONTRERAS FLORENTINO	Pacific Bell
1967	Bazael Antonio F	Pacific Telephone
1942	Avalos Bertha	Los Angeles Directory Co.
1933	FOERSTER Anthony baker	Los Angeles Directory Co.
1929	Goldmann Hermine candy pkr	Los Angeles Directory Co.
1924	Goldmann Hermina C pkr h	Los Angeles Directory Co.
	Dwingelo Louise wid Otto r	Los Angeles Directory Co.

423 FIRMIN

Year	Uses	Source
1990	AGUILAR MANUEL	Pacific Bell
1981	SUAREZ RENE	Pacific Telephone
1971	Marin Agripino	Pacific Telephone

Year	Uses	Source
1967	Gonzales Jaime	Pacific Telephone
1942	ROSENTHAL Saml	Los Angeles Directory Co.
	Mont Helen Mrs	Los Angeles Directory Co.
1937	Mont Helen Mrs	Los Angeles Directory Co.
	Prissman Eug Tillie slsmn	Los Angeles Directory Co.
	Mont Abr	Los Angeles Directory Co.
1929	Shack Jacob M Riza J mach h	Los Angeles Directory Co.
	Hyman Abr meatctr	Los Angeles Directory Co.
1924	Silverman Ina milliner r	Los Angeles Directory Co.
	Silverman David lab h	Los Angeles Directory Co.
	Levikoff Joe slsmn h	Los Angeles Directory Co.
	Ables Harry painter r	Los Angeles Directory Co.

425 FIRMIN

Year	Uses	Source
1990	SOSA ANGEL M	Pacific Bell
1986	SOSA ANGEL M	Pacific Bell
1971	Buricaga Ancito	Pacific Telephone
1962	Hanson Essie	Pacific Telephone
	Hanson Robt	Pacific Telephone
1942	NEWMAN Alf	Los Angeles Directory Co.
	Rubenstein Harry L Rose	Los Angeles Directory Co.
1937	Goldberg Lena Mrs	Los Angeles Directory Co.
	Goldman Rose wid Sol	Los Angeles Directory Co.
	Goldman Ruth clk	Los Angeles Directory Co.
1933	GOLDBERG Sol P compt opr	Los Angeles Directory Co.
	GOLDMAN Ruth	Los Angeles Directory Co.
	GOLDMAN Sol Rose clo clnr	Los Angeles Directory Co.
1929	GOLDMAN Julia clk	Los Angeles Directory Co.
	GOLDMAN Sol Rose tailor	Los Angeles Directory Co.
	Landsberg Abr tailor	Los Angeles Directory Co.
1924	Goldman Minnie wid Herman r	Los Angeles Directory Co.
	h	Los Angeles Directory Co.
	r	Los Angeles Directory Co.

429 FIRMIN

Year	Uses	Source
1981	CASTILLO CATALINA	Pacific Telephone
1962	Arneine Farilla Sylvia	Pacific Telephone

FINDINGS

Year	Uses	Source
1942	Albert Norman L barber	Los Angeles Directory Co.
1937	Malnick Anna wid Sol	Los Angeles Directory Co.
	Malnick Edith clk	Los Angeles Directory Co.
	Malnick Herbt Edyth slsmn	Los Angeles Directory Co.
	Malnick Irving J acct	Los Angeles Directory Co.
	Monchick Esther wid Saml	Los Angeles Directory Co.
1933	Goodman Philip	Los Angeles Directory Co.
	Goodman Mendel Hattie	Los Angeles Directory Co.

431 FIRMIN

Year	Uses	Source
1986	OROZCO LUPE	Pacific Bell
1962	Mc Cutcheon Morris	Pacific Telephone
1942	Ancheta Antonio	Los Angeles Directory Co.
	Blank Davis Ida	Los Angeles Directory Co.
	Blank Julius N lawyer	Los Angeles Directory Co.
	Javier Juah	Los Angeles Directory Co.
	Mauricio Cosme M	Los Angeles Directory Co.
	Samponito Frank	Los Angeles Directory Co.
	Saturnino Frank	Los Angeles Directory Co.
1937	Blank David Ida tailor	Los Angeles Directory Co.
	Blank Julius N	Los Angeles Directory Co.
	Pete Saml	Los Angeles Directory Co.
1933	Blank Davis Ida tailor	Los Angeles Directory Co.
	BLANK Julius	Los Angeles Directory Co.
1929	Blank Davis Ida tailor	Los Angeles Directory Co.
	GOLDBERG Lena wid Phillip	Los Angeles Directory Co.
1924	Lindy Harry clk r	Los Angeles Directory Co.
	Blank Davis h	Los Angeles Directory Co.
	BELL Jos asst mgr Los Angeles Building Maintenance Co r	Los Angeles Directory Co.

330 1/2 FIRMIN

Year	Uses	Source
1990	TURNER DONALD	Pacific Bell

332 1/2 FIRMIN

Year	Uses	Source
1990	KENNEDY ISIS	Pacific Bell

FINDINGS

409 1/2 FIRMIN

Year	Uses	Source
1990	PALOMERA ESPERANZA	Pacific Bell

425 1/2 FIRMIN

Year	Uses	Source
1990	ORTEGA JOSE E	Pacific Bell

431 1/2 FIRMIN

Year	Uses	Source
1981	GONZALEZ MARIA	Pacific Telephone

FIRMIN ST

313 FIRMIN ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	XXXX	Haines & Company
1951	Firmn Wells Albert P r	Pacific Telephone & Telegraph Co.
	Firmn Espanto T C r	Pacific Telephone & Telegraph Co.

314 FIRMIN ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	PATEL Balubhai	Haines & Company
1976	Aguayo Carmen A	Pacific Telephone
1951	Firmn Myregard L B r	Pacific Telephone & Telegraph Co.

315 FIRMIN ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	CASADO Lucy	Haines & Company
1976	Quintero Luis	Pacific Telephone
1951	Firmn Lambert Ruth V r	Pacific Telephone & Telegraph Co.

316 FIRMIN ST

Year	Uses	Source
2000	XXXX	Haines & Company
1958	Lasater Edw	Pacific Telephone
1951	Firmn Lasater Edw r	Pacific Telephone & Telegraph Co.

FINDINGS

318 FIRMIN ST

Year	Uses	Source
2006	BYIAS Me Ma	Haines Company, Inc.
2000	XXXX	Haines & Company

321 FIRMIN ST

Year	Uses	Source
2006	WILSON Richard	Haines Company, Inc.
	YURIAR MIguel	Haines Company, Inc.
2000	LICON Victor	Haines & Company
1958	Ventura Zacarias	Pacific Telephone
1951	Firmn Alagao Santiago r	Pacific Telephone & Telegraph Co.

323 FIRMIN ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	GARIBAY L	Haines & Company
1976	Ornales Fernando	Pacific Telephone
1958	Blance Conrad	Pacific Telephone
1951	Firmn Pojas Vincent r	Pacific Telephone & Telegraph Co.

Firmin St

324 Firmin St

Year	Uses	Source
2014	MISSION LIRIO DELOSVALLES	EDR Digital Archive
	MISSION LIRIO DELOSVALLES	EDR Digital Archive
2010	MISSION LIRIO DELOSVALLES	EDR Digital Archive
	MISSION LIRIO DELOSVALLES	EDR Digital Archive

FIRMIN ST

324 FIRMIN ST

Year	Uses	Source
2006	VELASCO Carlos	Haines Company, Inc.
2000	PATEL Balubhai	Haines & Company
	NUNEZ Francisco A	Haines & Company
1958	A Reliable Building Maintenance	Pacific Telephone

FINDINGS

330 FIRMIN ST

Year	Uses	Source
2006	AVENDANO Carmen	Haines Company, Inc.
	/a CINDY Pena	Haines Company, Inc.
2000	DICKERSON Wendy	Haines & Company

332 FIRMIN ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1951	Firmn Nicolas Bill r	Pacific Telephone & Telegraph Co.
	Firmn Tolato Eddie r	Pacific Telephone & Telegraph Co.

336 FIRMIN ST

Year	Uses	Source
2006	COLLINS Salvador	Haines Company, Inc.
2000	RODRIGUEZ David	Haines & Company
	ECHEVERRIA Ricardo	Haines & Company
1951	Firmn Bustillos Manuel r	Pacific Telephone & Telegraph Co.

338 FIRMIN ST

Year	Uses	Source
2000	XXXX	Haines & Company
1976	Borjes Teresa	Pacific Telephone
1951	N Firmn Lorenzana Margle r	Pacific Telephone & Telegraph Co.

340 FIRMIN ST

Year	Uses	Source
2000	MENA Connie	Haines & Company

342 FIRMIN ST

Year	Uses	Source
2000	XXXX	Haines & Company
1958	Pietrzyki Tom A Reliable Building Maintenance	Pacific Telephone
1951	Firmin Mendoza Alfred	Pacific Telephone & Telegraph Co.

344 FIRMIN ST

Year	Uses	Source
2000	XXXX	Haines & Company
1976	Mena Robt N	Pacific Telephone

FINDINGS

400 FIRMIN ST

Year	Uses	Source
1976	Rodriguez Tomas Salas	Pacific Telephone
1958	Rodriguez Tomas Salas	Pacific Telephone
1951	Firmin Rodriguez Tomas Salas r	Pacific Telephone & Telegraph Co.

402 FIRMIN ST

Year	Uses	Source
2000	XXXX	Haines & Company
1976	Verhaegen Louis	Pacific Telephone
1951	Firmn Lopez Albert	Pacific Telephone & Telegraph Co.

404 FIRMIN ST

Year	Uses	Source
2006	MORAN Caslmiro	Haines Company, Inc.
2000	MORAN Casimiro	Haines & Company
	CAMPOS J Reynaldo 213 4 B	Haines & Company
1976	Perez Felix	Pacific Telephone

406 FIRMIN ST

Year	Uses	Source
2006	GONGORAJose	Haines Company, Inc.
2000	GONGORA Jose	Haines & Company
1976	Goldring Bertha	Pacific Telephone
1958	Goldring Bertha	Pacific Telephone
1951	Firmn Goldring Bertha r	Pacific Telephone & Telegraph Co.

409 FIRMIN ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	a 1/2 PALOMERA Esperanza	Haines & Company
1976	Arredondo Maria	Pacific Telephone
1951	Firmn Pedrosa Silverio B r	Pacific Telephone & Telegraph Co.

410 FIRMIN ST

Year	Uses	Source
2006	MENAMadene	Haines Company, Inc.
2000	MENA Robert	Haines & Company
1976	Garcia Ruby	Pacific Telephone
1951	Firmin Greenberg Bertha R Mrs r	Pacific Telephone & Telegraph Co.

FINDINGS

411 FIRMIN ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	XXXX	Haines & Company
1976	Robinson Walter	Pacific Telephone
1951	Firmin Blair Isaac N r	Pacific Telephone & Telegraph Co.

414 FIRMIN ST

Year	Uses	Source
2000	XXXX	Haines & Company

Firmin St

414 Firmin St

Year	Uses	Source
2000	XXXX	Haines & Company

FIRMIN ST

417 FIRMIN ST

Year	Uses	Source
2006	Vitallano	Haines Company, Inc.
	SANGALANG	Haines Company, Inc.
	AGUIRRE Rosalinda	Haines Company, Inc.
2000	VALENCIA Luis A	Haines & Company
	AGUILAR Luis	Haines & Company
1976	De La Campa Elsa	Pacific Telephone
1958	Goldberg Abe	Pacific Telephone
1951	Firmn Goldberg Abe r	Pacific Telephone & Telegraph Co.

421 FIRMIN ST

Year	Uses	Source
2000	CONTRERAS Florentino	Haines & Company
	CONTRERAS Florentno	Haines & Company
1958	Bazael Antonio F	Pacific Telephone

Firmin St

423 Firmin St

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

FINDINGS

FIRMIN ST

423 FIRMIN ST

Year	*Uses*	*Source*
2006	No Current Listing	Haines Company, Inc.
2000	ELEOPOLOUS James	Haines & Company

Firmin St

423 Firmin St

Year	*Uses*	*Source*
2000	ELEOPOLOUS James	Haines & Company
1990	AGUILAR MANUEL	Pacific Bell
1981	SUAREZ RENE	Pacific Telephone
1976	Casanova Jose A	Pacific Telephone

FIRMIN ST

423 FIRMIN ST

Year	*Uses*	*Source*
1976	Casanova Jose A	Pacific Telephone

Firmin St

423 Firmin St

Year	*Uses*	*Source*
1971	Marin Agripino	Pacific Telephone
1967	Gonzales Jaime	Pacific Telephone
1951	Firmn Raskin Ethel r	Pacific Telephone & Telegraph Co.
	Firmn Raskin Philip r	Pacific Telephone & Telegraph Co.
	Firmn Cohen Solomon Rev r	Pacific Telephone & Telegraph Co.

FIRMIN ST

423 FIRMIN ST

Year	*Uses*	*Source*
1951	Firmn Cohen Solomon Rev r	Pacific Telephone & Telegraph Co.
	Firmn Raskin Philip r	Pacific Telephone & Telegraph Co.
	Firmn Raskin Ethel r	Pacific Telephone & Telegraph Co.

FINDINGS

Firmin St

423 Firmin St

Year	Uses	Source
1942	ROSENTHAL Saml	Los Angeles Directory Co.
	Mont Helen Mrs	Los Angeles Directory Co.
1937	Mont Abr	Los Angeles Directory Co.
	Prissman Eug Tillie slsmn	Los Angeles Directory Co.
	Mont Helen Mrs	Los Angeles Directory Co.
1929	Hyman Abr meatctr	Los Angeles Directory Co.
	Shack Jacob M Riza J mach h	Los Angeles Directory Co.
1924	Ables Harry painter r	Los Angeles Directory Co.
	Silverman David lab h	Los Angeles Directory Co.
	Silverman Ina milliner r	Los Angeles Directory Co.
	Levikoff Joe slsmn h	Los Angeles Directory Co.

FIRMIN ST

425 FIRMIN ST

Year	Uses	Source
2006	SOSAAngel M e	Haines Company, Inc.
	GONZALEZG	Haines Company, Inc.
2000	a 1/2 GONZALEZ G	Haines & Company
	SOSA Angel M	Haines & Company
1976	Suaste Iban	Pacific Telephone
1958	Smith Ella	Pacific Telephone
	Furedi Louis	Pacific Telephone
1951	Firmn Vojvodich Victor A r	Pacific Telephone & Telegraph Co.

427 FIRMIN ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2000	XXXX	Haines & Company
1951	Firmn Kessler Fannie Mrs r	Pacific Telephone & Telegraph Co.

429 FIRMIN ST

Year	Uses	Source
2006	SALAS Feliciano	Haines Company, Inc.
2000	XXXX	Haines & Company
1958	Thomas Freeman	Pacific Telephone

Year	Uses	Source
1951	Firmn Lawrence Gwenda Ramona r	Pacific Telephone & Telegraph Co.

431 FIRMIN ST

Year	Uses	Source
1958	Mc Cutcheon Morris	Pacific Telephone
1951	Firmn Wilhelm Edw r	Pacific Telephone & Telegraph Co.
	Firmn Blank Julius N r	Pacific Telephone & Telegraph Co.

433 FIRMIN ST

Year	Uses	Source
2006	RAMIREZRamon	Haines Company, Inc.
2000	XXXX	Haines & Company
	BUS 38 RES 12 NEW	Haines & Company
1976	Casillas Amelia	Pacific Telephone

440 FIRMIN ST

Year	Uses	Source
1976	Verhaegen Edith	Pacific Telephone

N BIXEL

406 N BIXEL

Year	Uses	Source
1990	MONTES RICARDO G	Pacific Bell
1986	MONTES RICARDO G	Pacific Bell
1971	Montes Ricardo G	Pacific Telephone

407 N BIXEL

Year	Uses	Source
1986	CHAVEZ ARTURO M	Pacific Bell
1981	PHILLIPINO AMERICAN BALLET CO	Pacific Telephone
	GONZALEZ ISRAEL J	Pacific Telephone
	CHAVEZ ARTURO M	Pacific Telephone

411 N BIXEL

Year	Uses	Source
1990	MACEDO CARLOS	Pacific Bell
1986	AVALOS MARIA ANNA	Pacific Bell
1981	CARMONA PETRA	Pacific Telephone
1971	North Bixel Street Hotel	Pacific Telephone

FINDINGS

419 N BIXEL

Year	Uses	Source
1990	PALACIOS MANUELA	Pacific Bell
	LOPEZ GLORIA	Pacific Bell
	CABRERA MARGARITA	Pacific Bell
	PARRA OLIVIA G	Pacific Bell

420 N BIXEL

Year	Uses	Source
1990	LY TUAN NGOC	Pacific Bell
1986	LY TUAN NGOC	Pacific Bell
1981	LY TUAN NGOC	Pacific Telephone
1971	Rodriguez Isabel	Pacific Telephone
1942	MENDOZA Caesar Jackie hsemn	Los Angeles Directory Co.
	GOSS Nola waiter	Los Angeles Directory Co.
1937	ALVAREZ Raymond Signorina shoemkr	Los Angeles Directory Co.
1933	KLEIN Jacob A Ida cl clnr	Los Angeles Directory Co.
	KLEIN Saml lab	Los Angeles Directory Co.
1929	Krolik Eliz mlnr	Los Angeles Directory Co.
	Krolik Michl Sarah gro	Los Angeles Directory Co.
	Cozine Mary J mlnr	Los Angeles Directory Co.
1924	ROSENBERG Israel weaver h	Los Angeles Directory Co.

421 N BIXEL

Year	Uses	Source
1981	BRITT MARTIN C	Pacific Telephone
1942	HAMMOND Carmen Mrs smstrs	Los Angeles Directory Co.
	HAMMOND Jack	Los Angeles Directory Co.
	HAMMOND Robt	Los Angeles Directory Co.
	Tellis Ada Mrs	Los Angeles Directory Co.
1933	Compagnone Vincent lab	Los Angeles Directory Co.
1924	h	Los Angeles Directory Co.

423 N BIXEL

Year	Uses	Source
1981	ESPINOSA CATALINO	Pacific Telephone
1971	Robare Edw	Pacific Telephone
	Espinosa Catalino	Pacific Telephone
1942	Sarmiento Angel Marie waiter	Los Angeles Directory Co.
1937	ACOSTA Raoul Dolores lab	Los Angeles Directory Co.

Year	Uses	Source
1929	Dempsey Eug H Marie sten	Los Angeles Directory Co.
1924	Gleaner Harry window trmr r	Los Angeles Directory Co.
	Savell Benj spilcer h	Los Angeles Directory Co.

426 N BIXEL

Year	Uses	Source
1990	MONTALVO CARLOS C	Pacific Bell
1986	MONTALVO CARLOS C	Pacific Bell
1981	SANCHEZ TITO DELEON	Pacific Telephone
1942	LEVIN David restr	Los Angeles Directory Co.
	LEVIN Morris Bessie	Los Angeles Directory Co.
	LEVIN Robt	Los Angeles Directory Co.
	Sutin Lena Mrs	Los Angeles Directory Co.
	Sutin Moses acct	Los Angeles Directory Co.
1937	Roseblum Saml Corinne clk	Los Angeles Directory Co.
	SCHULTZ Saml Esther pdlr	Los Angeles Directory Co.
1933	Zabaro Isadore Annie cbtmkr	Los Angeles Directory Co.
	Zabaro David eng	Los Angeles Directory Co.

427 N BIXEL

Year	Uses	Source
1990	SEGOVIA PHILIP	Pacific Bell
1986	SEGOVIA PHILIP	Pacific Bell
1981	SEGOVIA PHILIP	Pacific Telephone
1971	Segovia Philip	Pacific Telephone
1942	Degele Fred O	Los Angeles Directory Co.
	Degele Henry C	Los Angeles Directory Co.
	Degele Wm F	Los Angeles Directory Co.
1937	Degele Wm F Louise	Los Angeles Directory Co.
1933	Degele Henry C	Los Angeles Directory Co.
	Degele Wm C Louise	Los Angeles Directory Co.
1929	Degele Chas F income tax consultant	Los Angeles Directory Co.
	Degele Henry O oilwkr	Los Angeles Directory Co.
	Degele Wm Louise C ironwkr	Los Angeles Directory Co.
1924	Degele Wm iron wkr h	Los Angeles Directory Co.
	Degele Wilhelmina L clk r	Los Angeles Directory Co.
	Degele Chas F agt U S Internal Revenue r	Los Angeles Directory Co.

FINDINGS

432 N BIXEL

Year	Uses	Source
1990	BOLANOS MANUELA M	Pacific Bell
1986	BOLANOS MANUELA M	Pacific Bell
1981	BOLANOS MANUELA M	Pacific Telephone
1971	Gallardo Guadalupe	Pacific Telephone
	Bolanos Manuela M	Pacific Telephone
1942	GONZALEZ Theo gas sta	Los Angeles Directory Co.
	Leyva Angel Eduviges lab	Los Angeles Directory Co.
1937	Algoso Angel Stefenola jan	Los Angeles Directory Co.
	Geloza Wayne Billie waiter	Los Angeles Directory Co.
1929	Aeran Sol Evelyn hatmkr	Los Angeles Directory Co.
	MORENO Julia Mrs	Los Angeles Directory Co.
	Tudrick Max cook r	Los Angeles Directory Co.
1924	Crysal Saml h	Los Angeles Directory Co.

436 N BIXEL

Year	Uses	Source
1990	GONZALEZ MALDONADO	Pacific Bell
1986	GONZALEZ MALDONADO	Pacific Bell
1971	Rodriguez Bernardo	Pacific Telephone
1967	Villalobos Arturo	Pacific Telephone
1942	Crandall Cecil B Nancy pntr	Los Angeles Directory Co.
1937	Anias Aug carp	Los Angeles Directory Co.
	Anias Edwin coml artist	Los Angeles Directory Co.
	Anias Irvin H furrier	Los Angeles Directory Co.
	Anias Woodrow W	Los Angeles Directory Co.
	LEVITT Saml pntr	Los Angeles Directory Co.
1933	KELLY Aug carp	Los Angeles Directory Co.
	KELLY Irving	Los Angeles Directory Co.
	KELLY Woodrow W	Los Angeles Directory Co.
1929	Frankston Harold Dolly tailor	Los Angeles Directory Co.
	Frankston Jeanette smstrs	Los Angeles Directory Co.
	Verity Hyman Hetty tailor h	Los Angeles Directory Co.
1924	Herbst Wm B dancer h	Los Angeles Directory Co.
	Massen Louis barber h	Los Angeles Directory Co.
	r	Los Angeles Directory Co.

FINDINGS

438 N BIXEL

Year	Uses	Source
1990	NARVAEZ JULIA S	Pacific Bell
1986	NARVAEZ JULIA S	Pacific Bell
1981	NARVAEZ JULIA S	Pacific Telephone
1971	Arceo Jorge	Pacific Telephone
	Gonzalez Gregoria	Pacific Telephone
1967	Rodrigues Ramona	Pacific Telephone
1962	Solis Luis M	Pacific Telephone
1942	Lacson Mickey Cora hsmn	Los Angeles Directory Co.
	Lacson Dorothy	Los Angeles Directory Co.
1937	Rochin Frank Dora	Los Angeles Directory Co.
	MOSS Grace M M slswn	Los Angeles Directory Co.
1929	Titelman Betty L slsldy r	Los Angeles Directory Co.
	Tertelman Saml mach opr r	Los Angeles Directory Co.
	Teitelman Saml Bettie L slsmn h	Los Angeles Directory Co.
	GROSSMAN Mark Jennie chauf	Los Angeles Directory Co.
1924	SCHWARTZ Saml clk r	Los Angeles Directory Co.
	SCHWARTZ Morris tailor h	Los Angeles Directory Co.
	Fish Chas R steward h	Los Angeles Directory Co.

440 N BIXEL

Year	Uses	Source
1942	Gubanyi Rose Mrs	Los Angeles Directory Co.
	Gubanyi Emery USMC	Los Angeles Directory Co.
1937	SCHARFF Benj Rosa	Los Angeles Directory Co.
	LEVIN Morris Bessie expmn	Los Angeles Directory Co.
	GOODMAN Rebecca Mrs	Los Angeles Directory Co.
	LEVIN David	Los Angeles Directory Co.
1933	Skey Mirian Mrs	Los Angeles Directory Co.
1929	GOLDBERG Morris Eva carp	Los Angeles Directory Co.
1924	Filtzer Walter slsmn Kilts & Jackson Co r	Los Angeles Directory Co.
	h	Los Angeles Directory Co.
	Weisman Morris M barber h	Los Angeles Directory Co.

442 N BIXEL

Year	Uses	Source
1971	Vargas Elsa	Pacific Telephone
1962	Thomas Ruby	Pacific Telephone
	Thomas Allen	Pacific Telephone

FINDINGS

Year	Uses	Source
1942	Liles Geo D Sally mach	Los Angeles Directory Co.
	Kunishima Hisa Mrs cash	Los Angeles Directory Co.
1937	Rosen Sam	Los Angeles Directory Co.
	Pomerantz Adolph Molly photog	Los Angeles Directory Co.
1933	Pomerantz Adolph Molly photog	Los Angeles Directory Co.
	Kanter Max Sarah shoe reor	Los Angeles Directory Co.
1929	HERNANDEZ Genaro Victoria lab	Los Angeles Directory Co.

449 N BIXEL

Year	Uses	Source
1990	RICK JASON AUTO REPAIR	Pacific Bell
1971	Penrod Conrad	Pacific Telephone

407 1/2 N BIXEL

Year	Uses	Source
1990	FLORES CARLOS	Pacific Bell
	PERALTA GLORIA	Pacific Bell
	RAMIREZ M	Pacific Bell
	SALAS OFELIA	Pacific Bell

407 1/4 N BIXEL

Year	Uses	Source
1981	ENCISO ROBERTO LOPEZ	Pacific Telephone

408 1/2 N BIXEL

Year	Uses	Source
1990	ALONZO ELISEA	Pacific Bell

428 1/2 N BIXEL

Year	Uses	Source
1981	PEDROZA MARTHA	Pacific Telephone

432 1/2 N BIXEL

Year	Uses	Source
1986	LUEVANO MANUEL	Pacific Bell
1981	LUEVANO MANUEL	Pacific Telephone

436 1/2 N BIXEL

Year	Uses	Source
1981	VALLEJO JUAN	Pacific Telephone

FINDINGS

442 1/2 N BIXEL

Year	Uses	Source
1986	RODRIGUEZ LEONARDO G	Pacific Bell

N Bixel St

401 N Bixel St

Year	Uses	Source
2010	EAST WEST TRANSLATION AGENCY	EDR Digital Archive
	EAST WEST TRANSLATION AGENCY	EDR Digital Archive

N BIXEL ST

401 N BIXEL ST

Year	Uses	Source
2006	RHEEJi	Haines Company, Inc.

403 N BIXEL ST

Year	Uses	Source
2006	PARKHwa J	Haines Company, Inc.

406 N BIXEL ST

Year	Uses	Source
2006	/1 LANDAVERDE	Haines Company, Inc.
	Roxanna	Haines Company, Inc.
	ESQUIVELCdstine	Haines Company, Inc.
1976	Quijano Amalia	Pacific Telephone
	Montes Ricardo G	Pacific Telephone

407 N BIXEL ST

Year	Uses	Source
2006	MATEO Marcos	Haines Company, Inc.
	DIAZJuan A	Haines Company, Inc.
	CERRITOS Marda Julla	Haines Company, Inc.
1958	North Bixel St Hotel W	Pacific Telephone
	North Bixel Street Hotel	Pacific Telephone

408 N BIXEL ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1976	Alonzo Elisea	Pacific Telephone

Year	Uses	Source
1958	Fievisohn Chas H	Pacific Telephone
	Garcia Adeline	Pacific Telephone

410 N BIXEL ST

Year	Uses	Source
2006	LINARES Florendoi	Haines Company, Inc.
1976	Montes Fernando	Pacific Telephone
1958	Montes Fernando	Pacific Telephone

N Bixel St

411 N Bixel St

Year	Uses	Source
2014	BIG TANK LOGISTICS LLC	EDR Digital Archive
	BIG TANK LOGISTICS LLC	EDR Digital Archive

N BIXEL ST

411 N BIXEL ST

Year	Uses	Source
2006	AGUIRREJose	Haines Company, Inc.
1976	North Bixel Street Hotel	Pacific Telephone
1958	North Bixel St Hotel	Pacific Telephone

416 N BIXEL ST

Year	Uses	Source
2006	SOLORIOBeatriz	Haines Company, Inc.
1958	Agcaoili Leon	Pacific Telephone

417 N BIXEL ST

Year	Uses	Source
2006	GUDINOPablo	Haines Company, Inc.
	DELGADO Janet e	Haines Company, Inc.
1995	LIVINGSTON GENE J	Pacific Bell
1958	Nellos Geo Nicholas	Pacific Telephone

420 N BIXEL ST

Year	Uses	Source
2006	DELATORRE Celina	Haines Company, Inc.
1976	Rodriguez Isabel	Pacific Telephone
1958	Ruggles Millard R	Pacific Telephone

FINDINGS

421 N BIXEL ST

Year	Uses	Source
2006	CEDILLORosa	Haines Company, Inc.
	OROZCOJose R	Haines Company, Inc.
1958	Vico John	Pacific Telephone

423 N BIXEL ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

426 N BIXEL ST

Year	Uses	Source
2006	SANCHEZ Rene	Haines Company, Inc.
1976	Luna Luz	Pacific Telephone
1958	Arneine Farilla Sylvia	Pacific Telephone

N Bixel St

427 N Bixel St

Year	Uses	Source
2014	FREDY STUARDO DE LEON	EDR Digital Archive
	FREDY STUARDO DE LEON	EDR Digital Archive
2010	FREDY STUARDO DE LEON	EDR Digital Archive
	FREDY STUARDO DE LEON	EDR Digital Archive

N BIXEL ST

427 N BIXEL ST

Year	Uses	Source
2006	DELEONFredy 00 e	Haines Company, Inc.
1976	Segovia Philip	Pacific Telephone
1958	Segovia Philip	Pacific Telephone

428 N BIXEL ST

Year	Uses	Source
2006	SALAS Ofella	Haines Company, Inc.
1976	Paredes Silvia	Pacific Telephone
1958	Arnold Artrie Mae	Pacific Telephone

FINDINGS

N Bixel St

430 N Bixel St

Year	Uses	Source
1951	N Bixl Licudan Ulpiano r	Pacific Telephone & Telegraph Co.

432 N Bixel St

Year	Uses	Source
2014	ERIKA RUIZ	EDR Digital Archive
	ERIKA RUIZ	EDR Digital Archive
2010	ERIKA RUIZ	EDR Digital Archive
	ERIKA RUIZ	EDR Digital Archive

N BIXEL ST

432 N BIXEL ST

Year	Uses	Source
1976	Bolanos Manuela M	Pacific Telephone
	Gallardo Guadalupe	Pacific Telephone

434 N BIXEL ST

Year	Uses	Source
2006	CARRASCO Isaac	Haines Company, Inc.
	RODRIGUEZMima	Haines Company, Inc.
1958	Villareal Raul	Pacific Telephone

436 N BIXEL ST

Year	Uses	Source
2006	/2 BORJESSaydl	Haines Company, Inc.
1958	Ballestra Aniceto B	Pacific Telephone

438 N BIXEL ST

Year	Uses	Source
2006	NARVAEZ Manuel	Haines Company, Inc.
1976	Varela Javier	Pacific Telephone
	Narvaez Julia S	Pacific Telephone

440 N BIXEL ST

Year	Uses	Source
2006	GUZMANS	Haines Company, Inc.
1976	Chavez Jose	Pacific Telephone

Year	Uses	Source
1958	Bisquera Jovena N	Pacific Telephone

442 N BIXEL ST

Year	Uses	Source
1958	Hernandez Cruz	Pacific Telephone

N Bixel St

449 N Bixel St

Year	Uses	Source
2010	JAE CHUL SONG	EDR Digital Archive
	SAVE PENNY MARKET	EDR Digital Archive
	SAVE PENNY MARKET	EDR Digital Archive
	JAE CHUL SONG	EDR Digital Archive

N BIXEL ST

449 N BIXEL ST

Year	Uses	Source
2006	SAVE PENNY MKT	Haines Company, Inc.
1976	Penrod Scenic Studios	Pacific Telephone
	Conrad Penrod	Pacific Telephone

N BOYLSTON

401 N BOYLSTON

Year	Uses	Source
1986	RAMIREZ PEDRO	Pacific Bell

403 N BOYLSTON

Year	Uses	Source
1981	MEDRANO HELEN	Pacific Telephone
1967	Gregory John	Pacific Telephone

405 N BOYLSTON

Year	Uses	Source
1981	ROSE	Pacific Telephone
1967	Angulo Candida	Pacific Telephone

FINDINGS

406 N BOYLSTON

Year	Uses	Source
1981	LEVY EVA M	Pacific Telephone
1967	Ramirez Manuel	Pacific Telephone

407 N BOYLSTON

Year	Uses	Source
1990	PACHECO EMILIO C	Pacific Bell

412 N BOYLSTON

Year	Uses	Source
1981	VALDEZ BLAZ	Pacific Telephone
1967	Acosta Elena	Pacific Telephone

414 N BOYLSTON

Year	Uses	Source
1981	ZUNIGA JOHN LOPEZ	Pacific Telephone

417 N BOYLSTON

Year	Uses	Source
1981	ORTEGA AURORA	Pacific Telephone
1967	Leyva Margarita	Pacific Telephone
	Espinoza Jess	Pacific Telephone
	Leyva Domingo	Pacific Telephone

422 N BOYLSTON

Year	Uses	Source
1986	MARTINEZ MIGUEL A	Pacific Bell
1981	MARTINEZ MIGUEL A	Pacific Telephone

423 N BOYLSTON

Year	Uses	Source
1981	OLIVA TERESA	Pacific Telephone
1967	Hernandez Luis	Pacific Telephone

427 N BOYLSTON

Year	Uses	Source
1990	MENDOZA CARMEN	Pacific Bell
1981	SALAS TEODORO R	Pacific Telephone
1967	Salas Teodoro R	Pacific Telephone
	Salas Raimundo R	Pacific Telephone

FINDINGS

455 N BOYLSTON

Year	Uses	Source
1990	RIVERA DONATE	Pacific Bell
1986	MILLER S F	Pacific Bell
1981	MILLER S F	Pacific Telephone
1967	Miller Louis	Pacific Telephone

461 N BOYLSTON

Year	Uses	Source
1986	HERNANDEZ SALVADOR	Pacific Bell
1981	HERNANDEZ SALVADOR	Pacific Telephone
1967	Escobedo David	Pacific Telephone
	Estrada Pedro	Pacific Telephone

463 N BOYLSTON

Year	Uses	Source
1981	GUINTO JOSE ALFREDO	Pacific Telephone
1967	Riofrio Alberta	Pacific Telephone
	Riofrio Mary	Pacific Telephone

467 N BOYLSTON

Year	Uses	Source
1990	ARTIGA DINA	Pacific Bell
1967	Feldstein Mabel	Pacific Telephone

401 1/2 N BOYLSTON

Year	Uses	Source
1986	AGUILAR CARLOS	Pacific Bell
1981	SALAMANCA JAIME	Pacific Telephone

403 3/4 N BOYLSTON

Year	Uses	Source
1990	MELENDEZ MARTHA X	Pacific Bell

405 1/2 N BOYLSTON

Year	Uses	Source
1986	FERREIRO LUZ ELENA M	Pacific Bell
1981	FERREIRO LUZ ELENA N	Pacific Telephone

415 1/4 N BOYLSTON

Year	Uses	Source
1986	JUNES A	Pacific Bell

FINDINGS

415 3/4 N BOYLSTON

Year	Uses	Source
1990	SOSA LEYDI H	Pacific Bell

463 1/2 N BOYLSTON

Year	Uses	Source
1986	AVILA FELIPE LOZANO	Pacific Bell

465 1/4 N BOYLSTON

Year	Uses	Source
1990	ESCOBAR MARIA	Pacific Bell

467 1/2 N BOYLSTON

Year	Uses	Source
1990	PEREZ ROBERTO	Pacific Bell

N BOYLSTON ST

401 N BOYLSTON ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1942	WILLIAMS John B Evelyn int dec	Los Angeles Directory Co.
	Toub Buddy Deane real est	Los Angeles Directory Co.
	Toub Rose Mrs	Los Angeles Directory Co.
1937	Dewey Bernice	Los Angeles Directory Co.
	Tess P clk	Los Angeles Directory Co.
	Toub J B	Los Angeles Directory Co.
	Uhlenbrock Edw J Nellie	Los Angeles Directory Co.
1933	Toub Buddy slsmn	Los Angeles Directory Co.
	Toub Rose Mrs	Los Angeles Directory Co.
1929	GILLESPIE Eleanor M sten	Los Angeles Directory Co.
	GILLESPIE Lois B baker	Los Angeles Directory Co.
	Ralls Sallie slsldy r	Los Angeles Directory Co.
	GIBBONS Saml G Goldie junk dlr	Los Angeles Directory Co.

403 N BOYLSTON ST

Year	Uses	Source
2006	CABRERAPerez	Haines Company, Inc.
	MELENDEZ Martha X	Haines Company, Inc.
	MORAJaime	Haines Company, Inc.
1976	Campos Javier	Pacific Telephone

FINDINGS

Year	Uses	Source
1958	Gnibeda Alex	Pacific Telephone
	Gregory John	Pacific Telephone
1942	Tragesser Frank W clk SCE Co	Los Angeles Directory Co.
1937	Tragesser Frank W	Los Angeles Directory Co.
	LEACH Donald L Margt clk	Los Angeles Directory Co.
	SCHROEDER Herman G Ada pntr	Los Angeles Directory Co.
	SCHROEDER Thurman	Los Angeles Directory Co.
	SMITH Albt Anna clo clnr	Los Angeles Directory Co.
1933	Costella Jas P chauf	Los Angeles Directory Co.
	Costella Mary Mrs	Los Angeles Directory Co.
	Fadnefs Arnold B Ruth L chauf	Los Angeles Directory Co.
	Tragesser Antoinette Wid John	Los Angeles Directory Co.
	Tragesser Frank W clk	Los Angeles Directory Co.
	Ziesman Adam Emily	Los Angeles Directory Co.
1929	Cisman Adam Emily	Los Angeles Directory Co.
	Fouce Frank Anna lab	Los Angeles Directory Co.
	Yavitz Julius Dollie chauf h	Los Angeles Directory Co.
	Zisman H Adam car bldr h	Los Angeles Directory Co.

404 N BOYLSTON ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1958	Ross Chas W	Pacific Telephone
1942	Markus Dina	Los Angeles Directory Co.
	GELLER Saml Esther paper ctr	Los Angeles Directory Co.
	FRANCO Max	Los Angeles Directory Co.
1937	Ruccione E Martin Nell phys	Los Angeles Directory Co.

405 N BOYLSTON ST

Year	Uses	Source
2006	A MONDRAGON Neil	Haines Company, Inc.
1976	Napoli Ernest J Mrs	Pacific Telephone
	Ferreiro Lua Elena M	Pacific Telephone
1958	Seitz Frank S	Pacific Telephone
1942	Skey Miriam Mrs	Los Angeles Directory Co.
	Skey Alf A clk Bof A	Los Angeles Directory Co.
	MILLER Wm A blrmkr SP Co	Los Angeles Directory Co.
1937	Skey Marian Mrs	Los Angeles Directory Co.
	MILLER Wm A blrmkr SPCo	Los Angeles Directory Co.

Year	Uses	Source
1933	Greenfield Louis Rebecca tailor	Los Angeles Directory Co.
1929	Faber Mark Jean pdlr	Los Angeles Directory Co.
	WELSH Sally V drsmkr r	Los Angeles Directory Co.

406 N BOYLSTON ST

Year	Uses	Source
1976	Pesqueda Pedro	Pacific Telephone
1942	SCHAEFFER Jas	Los Angeles Directory Co.
	SCHAEFFER Nellie Mrs	Los Angeles Directory Co.
	OLIVER Kath	Los Angeles Directory Co.
	SCHAEFFER Cansta beauty opr	Los Angeles Directory Co.
	SHAFER Christa J beauty opr	Los Angeles Directory Co.

407 N BOYLSTON ST

Year	Uses	Source
2006	Florenino	Haines Company, Inc.
	CONTRERAS	Haines Company, Inc.

N Boylston St

409 N Boylston St

Year	Uses	Source
2010	RAQUEL RICO	EDR Digital Archive
	RAQUEL RICO	EDR Digital Archive

N BOYLSTON ST

409 N BOYLSTON ST

Year	Uses	Source
2006	GARCIAJesus	Haines Company, Inc.

410 N BOYLSTON ST

Year	Uses	Source
1929	Powers Frances F sten h	Los Angeles Directory Co.

411 N BOYLSTON ST

Year	Uses	Source
2006	SALAZARMada	Haines Company, Inc.
	ODejesus	Haines Company, Inc.
1976	R C E Distributors	Pacific Telephone
1958	Theobald Roy F	Pacific Telephone

Year	Uses	Source
1958	Feinstein Molly	Pacific Telephone
1942	FISHER Florence	Los Angeles Directory Co.
	Mervis Benj slsmn	Los Angeles Directory Co.
	Mervis Cecelia wid Wm	Los Angeles Directory Co.
	Mervis Saml clk	Los Angeles Directory Co.
1937	Mervis Cecelia Mrs	Los Angeles Directory Co.
1933	Palias Menie	Los Angeles Directory Co.
	Palias Harry	Los Angeles Directory Co.
	PALAIS Israel Bertha clo clnr	Los Angeles Directory Co.
	Mervis Saml clk Bank of Am	Los Angeles Directory Co.
	Mervis Cecilia wid Wm	Los Angeles Directory Co.
1929	Mervis Cecilia wid Wm	Los Angeles Directory Co.
	Mervis Saml clk MNT&S Bank	Los Angeles Directory Co.
	PARKER Frances J sten	Los Angeles Directory Co.
	PARKER Gladys typist	Los Angeles Directory Co.
	PARKER Louis Rose tailor	Los Angeles Directory Co.

412 N BOYLSTON ST

Year	Uses	Source
1976	Diaz Benny M	Pacific Telephone
1958	Margas Geo V	Pacific Telephone
1942	PATTERSON Emil Margt	Los Angeles Directory Co.
1937	BERNSTEIN Sidney Gussie bkpr	Los Angeles Directory Co.

N Boylston St

413 N Boylston St

Year	Uses	Source
1990	LISTAR DONALD E	Pacific Bell
1986	LISTAR DONALD E	Pacific Bell
1981	LISTAR DONALD R	Pacific Telephone
1976	Taylor D J	Pacific Telephone
	Listar Donald E	Pacific Telephone
1967	Listar Nick J	Pacific Telephone
1958	Shanz Winifred	Pacific Telephone
	Bellvick Zygmunt	Pacific Telephone
1951	N Boylstn Oliver Kate A r	Pacific Telephone & Telegraph Co.

FINDINGS

N BOYLSTON ST

414 N BOYLSTON ST

Year	Uses	Source
1976	Zuniga John Lopez	Pacific Telephone
1942	BERNSTEIN Sidney Gussie clk DW&P	Los Angeles Directory Co.

415 N BOYLSTON ST

Year	Uses	Source
1976	Felix Galindo	Pacific Telephone
1958	Baca Josie M	Pacific Telephone
	Drouet Ida	Pacific Telephone
	Gutierrez Felicia Mrs	Pacific Telephone
1937	THOMAS Jack E phtog	Los Angeles Directory Co.
	THOMAS Saml M Eliz clk Southern Hardwood Dirs Credit Assa	Los Angeles Directory Co.
1933	NICHOLS Joshua May W	Los Angeles Directory Co.
1929	Almarode Lucile sten	Los Angeles Directory Co.
	BURTON Myrtie M office sec Bibel Institute	Los Angeles Directory Co.
	Mc Dade Kathleen waiter	Los Angeles Directory Co.
	Mc LAIN Alma tchr	Los Angeles Directory Co.
	PHAIR Alice C F bkpr Bible Institute	Los Angeles Directory Co.
	Stuckey Lena clk r	Los Angeles Directory Co.
	WELLER Grace H bus sec Christian Fundamental League r	Los Angeles Directory Co.
1924	PAYNE Christian clk r	Los Angeles Directory Co.
	PAYNE Christine wid Ora h	Los Angeles Directory Co.
	PAYNE Earl messgr r	Los Angeles Directory Co.

416 N BOYLSTON ST

Year	Uses	Source
1958	Heyliger Wm	Pacific Telephone
1937	Monteverde Henry Anita elev opr	Los Angeles Directory Co.
	Kelleran Emery J Tula	Los Angeles Directory Co.

417 N BOYLSTON ST

Year	Uses	Source
1976	Ortega Aurora	Pacific Telephone
	Govea Cecilio	Pacific Telephone
1958	Lopez Virginia M	Pacific Telephone

FINDINGS

Year	Uses	Source
1958	Liles G D	Pacific Telephone
1942	Listar Jose struct wkr	Los Angeles Directory Co.
	Plann Paul I emp SCG Co	Los Angeles Directory Co.
	Salwel Camille Julia lab	Los Angeles Directory Co.
1937	SNYDER John May	Los Angeles Directory Co.
	WEAVER May wid Jos	Los Angeles Directory Co.
1933	Payne Christine A Mrs clk	Los Angeles Directory Co.
	PAYNE Roy Slsmn	Los Angeles Directory Co.
	Payne Christine A Mrs clk	Los Angeles Directory Co.
1929	PAYNE Christine A wid Ora	Los Angeles Directory Co.
	PAYNE Roy E chauf	Los Angeles Directory Co.
1924	St Denis Anna K seam r	Los Angeles Directory Co.
	St Denis Jos h	Los Angeles Directory Co.

418 N BOYLSTON ST

Year	Uses	Source
1958	Morrison Max	Pacific Telephone
1942	Silverman Victor Pauline gro	Los Angeles Directory Co.
	Silverman Betty clk	Los Angeles Directory Co.
1937	Matorian Saml Faye	Los Angeles Directory Co.

421 N BOYLSTON ST

Year	Uses	Source
2006	BRAID Adam	Haines Company, Inc.
1976	Vasquez Jose C	Pacific Telephone
1958	Garcia Luis S	Pacific Telephone
1942	PEREZ Steve Juanita porter	Los Angeles Directory Co.
1933	Wetkavska Mildred musician	Los Angeles Directory Co.
	Wetkavska Frank A Addie B plmbr	Los Angeles Directory Co.
1929	Singal Goldie clk r	Los Angeles Directory Co.
	Singal Bessie wid Morris h	Los Angeles Directory Co.
1924	Wethawska F plumber r	Los Angeles Directory Co.

422 N BOYLSTON ST

Year	Uses	Source
1958	Vasquez Nicolas A	Pacific Telephone
1942	SPENCER Alvin H Ada S farmer	Los Angeles Directory Co.
1937	Mc INTOSH Ulysses L	Los Angeles Directory Co.
	ANDERSON Thelma M tchr	Los Angeles Directory Co.

FINDINGS

Year	Uses	Source
1937	ANDERSON Paul C mech	Los Angeles Directory Co.
1933	ANDERSON Paul E Thelma M serv sta atdt	Los Angeles Directory Co.
	Achinson Eliz Mrs	Los Angeles Directory Co.
	Mc INTOSH Onzo	Los Angeles Directory Co.
	SHIELDS Sarah J Mrs	Los Angeles Directory Co.
1929	Mc INTOSH Thelma M tchr	Los Angeles Directory Co.
	Mc INTOSH Ulysses L Lydia B	Los Angeles Directory Co.
	SHIELDS Sarah J wid J A r	Los Angeles Directory Co.
1924	SHIELDS Sarah J r	Los Angeles Directory Co.
	Mc INTOSH Ulysses L h	Los Angeles Directory Co.

423 N BOYLSTON ST

Year	Uses	Source
1942	Betham Gertrude L clk SDSW	Los Angeles Directory Co.
	Betham Augustus Gertrude jan	Los Angeles Directory Co.
	Brown Urbana Mrs	Los Angeles Directory Co.
1937	LARSEN Thos W Adeline	Los Angeles Directory Co.
	LARSEN Thos utilitymn Genl Hosp	Los Angeles Directory Co.
	LARSEN Adeline Mrs	Los Angeles Directory Co.
1929	r	Los Angeles Directory Co.
	SCHWARZ Helen clo clnr	Los Angeles Directory Co.
	SCHWARTZ Rose drsmkr h	Los Angeles Directory Co.

424 N BOYLSTON ST

Year	Uses	Source
1958	Davis Alma V Mrs	Pacific Telephone
1942	COOPER Christina Mrs	Los Angeles Directory Co.
	JENSEN Wm L miner	Los Angeles Directory Co.
1937	Atchison Eliz Mrs	Los Angeles Directory Co.
1929	ATCHISON Eliz phone opr	Los Angeles Directory Co.
1924	Spiger Masseal W clk r	Los Angeles Directory Co.
	Spizer David Becker & Spizer h	Los Angeles Directory Co.
	Spivey Mack auto opr r	Los Angeles Directory Co.

425 N BOYLSTON ST

Year	Uses	Source
2006	MENDOZAP	Haines Company, Inc.
1958	Delgado Louis	Pacific Telephone
1942	GRISWOLD Mary E	Los Angeles Directory Co.

Year	Uses	Source
1937	Griswold Mary E	Los Angeles Directory Co.
	Griswold Leman N	Los Angeles Directory Co.
	Griswold Flora A clk	Los Angeles Directory Co.
1933	GRISWOLD Mary Ella	Los Angeles Directory Co.
	GRISWOLD Leman N rancher	Los Angeles Directory Co.
	GRISWOLD Flora A clk	Los Angeles Directory Co.
1929	GRISWOLD Leman N	Los Angeles Directory Co.
	GRISWOLD Mary E	Los Angeles Directory Co.
	GRISWOLD Flora A	Los Angeles Directory Co.
1924	Griswold Leman N mach r	Los Angeles Directory Co.
	Griswold Mary E r	Los Angeles Directory Co.

426 N BOYLSTON ST

Year	Uses	Source
1976	Rodriguez Laura Mrs	Pacific Telephone
1958	Castellanos Agripina	Pacific Telephone
1942	PEREZ Ricardo Paula restrwkr	Los Angeles Directory Co.
1924	KANE Jas A carp h	Los Angeles Directory Co.

N Boylston St

427 N Boylston St

Year	Uses	Source
2014	TACO CAF	EDR Digital Archive
	TACO CAF	EDR Digital Archive

N BOYLSTON ST

427 N BOYLSTON ST

Year	Uses	Source
2006	MENDOZA Rabbi	Haines Company, Inc.
	MOONJulle	Haines Company, Inc.
1976	Salas Ramundo R	Pacific Telephone
	Salas Teodoro R	Pacific Telephone
1958	Salas Teodoro R	Pacific Telephone
	Salas Raimundo R	Pacific Telephone
1942	FEIN Geo Goldie phys Genl Hosp	Los Angeles Directory Co.
	BERNSTEIN Ralph	Los Angeles Directory Co.
	BERNSTEIN Philip Fanny gro	Los Angeles Directory Co.
1937	Ruskin Saul lawyer	Los Angeles Directory Co.

Year	Uses	Source
1937	KLEIN Harold clk	Los Angeles Directory Co.
1933	Ruskin Saml lawyer	Los Angeles Directory Co.
1929	Dale Harold Lillian auto mech	Los Angeles Directory Co.
	FOGEL Jos N musician	Los Angeles Directory Co.
	Ruskin Saul lawyer	Los Angeles Directory Co.
	r	Los Angeles Directory Co.
1924	DAVIS Robt cook h rear	Los Angeles Directory Co.
	Mozon Henry stsmn r	Los Angeles Directory Co.
	Ruskin Abraham tailor h	Los Angeles Directory Co.
	r	Los Angeles Directory Co.

428 N BOYLSTON ST

Year	Uses	Source
1976	Fernandez Roberto J	Pacific Telephone
1958	Banuelos Joe	Pacific Telephone
1942	Parra Alejo Aurora brklyr	Los Angeles Directory Co.
1937	Mc INTIRE Edna E	Los Angeles Directory Co.
	Brewster Ruth M wid R O	Los Angeles Directory Co.
1933	Mc INTIRE Edna writer	Los Angeles Directory Co.
1924	CLARKE Mabelle E vocal tchr h	Los Angeles Directory Co.

430 N BOYLSTON ST

Year	Uses	Source
1962	EGER PAUL	Pacific Telephone
1958	Rodriguez Mike J	Pacific Telephone
1942	Juniper Reginald Mary studiowkr	Los Angeles Directory Co.
1937	Kaleb Jennie waid J	Los Angeles Directory Co.
	Flood Richd USN	Los Angeles Directory Co.
1933	Flood Jordena clk	Los Angeles Directory Co.
	Flood Richd USN	Los Angeles Directory Co.
	Kaleh Jennie Mrs	Los Angeles Directory Co.
1929	Bell Bessie Mrs	Los Angeles Directory Co.
1924	BELL Bessie h	Los Angeles Directory Co.

437 N BOYLSTON ST

Year	Uses	Source
2006	SANTOSJose	Haines Company, Inc.
1976	Palacio Guadalupe	Pacific Telephone
1958	Delgado Zenaida	Pacific Telephone

FINDINGS

Year	Uses	Source
1942	DELGADO Ramona	Los Angeles Directory Co.
	DELGADO Zenaida Mrs	Los Angeles Directory Co.
	DELGADO Maria A garmtfnshr	Los Angeles Directory Co.
	DELGADO Louis waiter	Los Angeles Directory Co.
	Delgado Brigido S restrwkr	Los Angeles Directory Co.
1937	Delgardo Salvatore	Los Angeles Directory Co.
1933	RANDOLPH Horace lab	Los Angeles Directory Co.
	RANDOLPH Francisca Mrs	Los Angeles Directory Co.
1929	GONZALEZ Angelo Mrs	Los Angeles Directory Co.
1924	SCHWARTZ Helen h	Los Angeles Directory Co.
	Mondt Morris slsmn r	Los Angeles Directory Co.
	Kravitzon Jos designer Samuels & Raimond r	Los Angeles Directory Co.
	Jelikovsky Saml Jelikovsky & Maydale r	Los Angeles Directory Co.

438 N BOYLSTON ST

Year	Uses	Source
1924	h	Los Angeles Directory Co.

455 N BOYLSTON ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1976	Miller S F	Pacific Telephone
1958	Miller Louis	Pacific Telephone

458 N BOYLSTON ST

Year	Uses	Source
1958	Nefulda Elsie	Pacific Telephone

461 N BOYLSTON ST

Year	Uses	Source
2006	MORALESLu Ona	Haines Company, Inc.
1976	Aguirre Bertha	Pacific Telephone
1958	Escobedo Resario	Pacific Telephone

462 N BOYLSTON ST

Year	Uses	Source
1958	Lowe Vera	Pacific Telephone

FINDINGS

463 N BOYLSTON ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1976	Albarenga Amilcar	Pacific Telephone
	Moya Basilio	Pacific Telephone

465 N BOYLSTON ST

Year	Uses	Source
2006	ARTIGAVi Ima	Haines Company, Inc.
	ELISONDOJose	Haines Company, Inc.
	ESCOBAR Marda	Haines Company, Inc.
	MICHEL Madsol	Haines Company, Inc.
1976	Estrada Frank M	Pacific Telephone
	Mendez Tereza	Pacific Telephone
1958	Standlee Wilma	Pacific Telephone

467 N BOYLSTON ST

Year	Uses	Source
2006	ACOSTA Sandy	Haines Company, Inc.
	V RIVERAAlejandro D	Haines Company, Inc.
1976	Diaz Alicia	Pacific Telephone
	Feldstein Mabel	Pacific Telephone

W TEMPLE

1217 W TEMPLE

Year	Uses	Source
1990	FTD MEMBER FLORISTS	Pacific Bell
	DARLING S FLOWERS	Pacific Bell
1986	FTD MEMBER FLORISTS BROADWAY FLORIST	Pacific Bell
	DARLING S FLOWERS & NURSERY	Pacific Bell
	DARLINGS FLOWER S	Pacific Bell
1971	Gamma Sales & Engineering	Pacific Telephone
1967	Telling Vincent H American Research Bureau missng heirs	Pacific Telephone
	Hills Henry S probate invstgtr	Pacific Telephone
	American Research Bureau missing heirs	Pacific Telephone
1962	GRIFFIN CONSTRUCTIIN CO	Pacific Telephone

FINDINGS

1218 W TEMPLE

Year	Uses	Source
1981	KOWN S SEWING CO	Pacific Telephone
1971	Southwestern Plastics Co custm plastc fabrctn	Pacific Telephone
	Gutierrez Francisco	Pacific Telephone
1967	Gutierrez Francisco	Pacific Telephone

1218 1/2 W TEMPLE

Year	Uses	Source
1986	ORTHODOX CHRISTIAN MISSION	Pacific Bell
1981	PETERS ERNIE	Pacific Telephone

W Temple St

1201 W Temple St

Year	Uses	Source
2014	ROTTNER KEVIN	EDR Digital Archive
2010	LEGAL APPOACH ATTORNNEY	EDR Digital Archive
	CALIFRNIA SHIPWRECK MUSEUM INC	EDR Digital Archive

W TEMPLE ST

1201 W TEMPLE ST

Year	Uses	Source
2006	TREMBLEY Chistine	Haines Company, Inc.
	ROTTNER Kevin	Haines Company, Inc.
	ODIMASSalvador	Haines Company, Inc.

1202 W TEMPLE ST

Year	Uses	Source
2006	BENEZRA Yehuda	Haines Company, Inc.
1976	Carrillo Pedro	Pacific Telephone

W Temple St

1217 W Temple St

Year	Uses	Source
2014	DARLINGS FLOWERS INC	EDR Digital Archive
	DARLINGS FLOWERS INC	EDR Digital Archive
2010	DARLINGS FLOWERS INC	EDR Digital Archive
	DARLINGS FLOWERS INC	EDR Digital Archive

FINDINGS

W TEMPLE ST

1217 W TEMPLE ST

Year	Uses	Source
2006	CROSSLEY DAID	Haines Company, Inc.
	DARUNGS	Haines Company, Inc.
	FLOWERS	Haines Company, Inc.
	DRLNGS	Haines Company, Inc.
	FTDOMMBRFLRSTS	Haines Company, Inc.
1976	Fay & Kwoh attys	Pacific Telephone
	Asian Law Collective	Pacific Telephone
1958	Mc Kanna Edmund investmts	Pacific Telephone
	Civic Center Realty	Pacific Telephone

1218 W TEMPLE ST

Year	Uses	Source
2006	YOUNG Gordon	Haines Company, Inc.
	HALLSlaven	Haines Company, Inc.
	HALL David	Haines Company, Inc.
	FENN Casey	Haines Company, Inc.
	AKUTAGAWABrian	Haines Company, Inc.
	LAW Marf In MIYASAKEGeorge	Haines Company, Inc.
1976	Kowns Sewing Co	Pacific Telephone
	Luisas Fashions	Pacific Telephone
1958	Independent Progressive Party Downtown Club	Pacific Telephone
	United Peoples Committee	Pacific Telephone

W Temple St

1222 W Temple St

Year	Uses	Source
1958	Nakamura Geo	Pacific Telephone

1227 W Temple St

Year	Uses	Source
2014	ELECTRO MEDIX	EDR Digital Archive
2010	ELECTRO MEDIX	EDR Digital Archive
	KOHANOFF PROPERTIES LLC	EDR Digital Archive
	FARMAN TEXTILE INC	EDR Digital Archive
	ENOVA MEDICAL RESPONSE INC	EDR Digital Archive

Year	Uses	Source
2010	WEST V N INC	EDR Digital Archive
	BE FRAGRANCE COMPANY INC	EDR Digital Archive

1230 W Temple St

Year	Uses	Source
2014	ECHO PARK CONGREGATION	EDR Digital Archive
2010	ECHO PARK CONGREGATION	EDR Digital Archive
2006	ECHOPARK	Haines Company, Inc.
	CONGREGATION	Haines Company, Inc.
1990	JEHOVAH S WITNESSES ASSEMBLY HALL	Pacific Bell
1986	JEHOVAH S WITNESSES	Pacific Bell
1981	JEHOVAH S WITNESSES	Pacific Telephone
1976	JEHOVAHS WITNESSES	Pacific Telephone
	Echo Park Congregation	Pacific Telephone
1971	JEHOVVAHS WITNESSES	Pacific Telephone
	Echo Park Congregation	Pacific Telephone
1967	JEHOVAHS WITNESSES	Pacific Telephone
	Silverlake Congregation	Pacific Telephone
1962	JEHOVAHS WITNESSES	Pacific Telephone
	Silverlake Congregation	Pacific Telephone

W TEMPLE ST

1240 W TEMPLE ST

Year	Uses	Source
2006	SPORTS	Haines Company, Inc.
	RELAMPAGO	Haines Company, Inc.
1976	Sams TV Service	Pacific Telephone
1958	Rosado Maria Borinquen Washing Machine & Appliance Repair	Pacific Telephone
	Borinquen Washing Mach & Appliance Repair	Pacific Telephone

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
418 Firmin St	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1201 W Temple St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1201 W TEMPLE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1202 W TEMPLE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1217 W TEMPLE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1217 W TEMPLE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1217 W Temple St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1217 W Temple St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1218 1/2 W TEMPLE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1218 W TEMPLE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1218 W TEMPLE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1222 W Temple St	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1227 W Temple St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1230 W Temple St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1230 W Temple St	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1240 W TEMPLE ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
313 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
314 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
315 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
316 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
316 FIRMIN ST	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
318 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
321 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
321 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
323 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
323 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
324 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
324 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
324 Firmin St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
324 Firmin St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
330 1/2 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
330 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
332 1/2 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
332 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
336 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
338 FIRMIN ST	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
340 FIRMIN ST	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
342 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
342 FIRMIN ST	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
344 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
344 FIRMIN ST	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
400 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
400 FIRMIN ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
401 1/2 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
401 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
401 N Bixel St	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
401 N Bixel St	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
401 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
401 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
402 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
402 FIRMIN ST	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
403 3/4 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
403 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
403 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
403 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
404 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
404 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
404 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
404 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
405 1/2 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
405 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
405 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
405 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
406 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
406 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
406 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
406 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
406 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
406 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
406 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
406 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
407 1/2 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
407 1/4 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
407 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
407 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
407 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
407 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
407 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
408 1/2 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
408 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
408 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
409 1/2 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
409 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
409 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
409 N Boylston St	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
409 N Boylston St	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
410 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
410 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
410 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
410 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
410 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
411 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
411 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
411 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
411 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
411 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
411 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
411 N Bixel St	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
411 N Bixel St	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
411 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
412 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
412 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
412 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
413 N Boylston St	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
414 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
414 FIRMIN ST	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
414 Firmin St	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
414 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
414 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
415 1/4 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
415 3/4 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
415 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
415 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
416 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
416 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
416 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
417 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
417 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
417 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
417 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
417 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
417 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
418 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
419 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
419 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
420 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
420 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
420 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
421 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
421 FIRMIN ST	2014, 2010, 2006, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
421 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920
421 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
421 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
422 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
422 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
422 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
423 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
423 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
423 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
423 Firmin St	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1980, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
423 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
423 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
423 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
423 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
424 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
424 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
425 1/2 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
425 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
425 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
425 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
426 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
426 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
426 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
426 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
426 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920
427 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
427 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
427 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
427 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
427 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
427 N Bixel St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
427 N Bixel St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
427 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
427 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
427 N Boylston St	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
427 N Boylston St	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
428 1/2 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
428 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
428 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
428 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
428 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920
429 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
429 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
430 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
430 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
430 N Bixel St	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
430 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
431 1/2 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
431 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
431 FIRMIN	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
431 FIRMIN ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
432 1/2 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
432 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
432 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
432 N BIXEL ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
432 N Bixel St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
432 N Bixel St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
433 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
433 FIRMIN ST	2014, 2010, 2004, 2003, 2001, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
434 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
434 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
435 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
436 1/2 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
436 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
436 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
436 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
437 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
437 BOYLSTON ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
437 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
438 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
438 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
438 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
438 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1923, 1921, 1920
439 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
440 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
440 FIRMIN ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
440 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1923, 1921, 1920
440 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
441 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
442 1/2 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
442 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
442 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1936, 1935, 1934, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
442 N BIXEL ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
443 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
445 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
447 BIXEL ST N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
449 N BIXEL	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
449 N BIXEL ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
449 N Bixel St	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
449 N Bixel St	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
455 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
455 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
458 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
461 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
461 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
462 N BOYLSTON ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
463 1/2 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
463 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
463 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
465 1/4 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
465 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
467 1/2 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
467 N BOYLSTON	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
467 N BOYLSTON ST	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

401 & 407 North Boylston Street
401 & 407 North Boylston Street
Los Angeles, CA 90026

Inquiry Number: 3867549.8
March 03, 2014

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography March 03, 2014

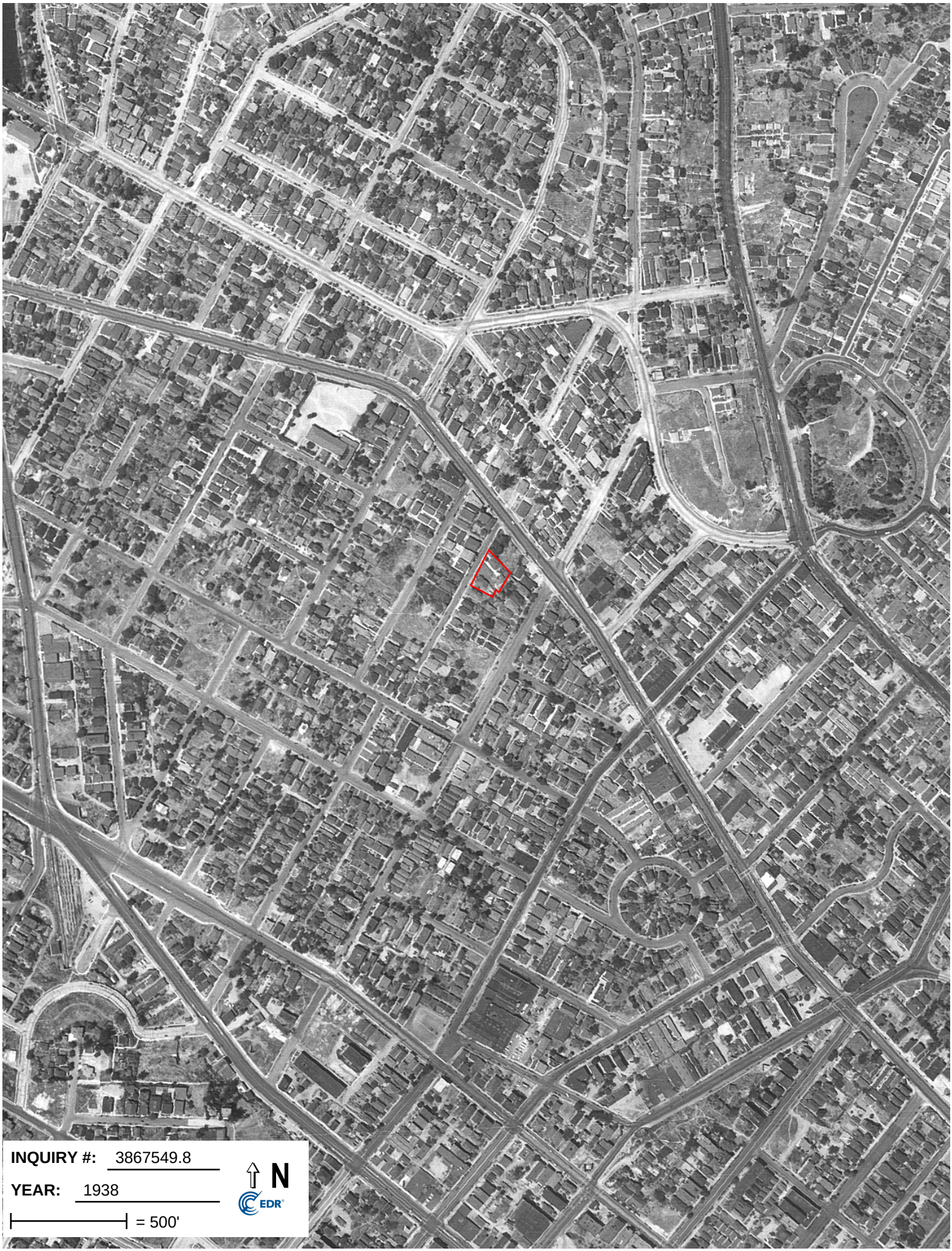
Target Property:

401 & 407 North Boylston Street

Los Angeles, CA 90026

Year	***Scale***	***Details***	***Source***
1927	Aerial Photograph. Scale: 1"=500'	Flight Year: 1927	Fairchild
1938	Aerial Photograph. Scale: 1"=500'	Flight Year: 1938	EDR
1948	Aerial Photograph. Scale: 1"=500'	Flight Year: 1948	EDR
1952	Aerial Photograph. Scale: 1"=500'	Flight Year: 1952	EDR
1964	Aerial Photograph. Scale: 1"=500'	Flight Year: 1964	EDR
1972	Aerial Photograph. Scale: 1"=500'	Flight Year: 1972	EDR
1981	Aerial Photograph. Scale: 1"=500'	Flight Year: 1981	AMI
1989	Aerial Photograph. Scale: 1"=500'	Flight Year: 1989	USGS
1994	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1994	EDR
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	EDR
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	EDR
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	EDR
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	EDR


INQUIRY #: 3867549.8
YEAR: 1927
= 500'
N
EDR


INQUIRY #: 3867549.8
YEAR: 1938
= 500'
N
EDR

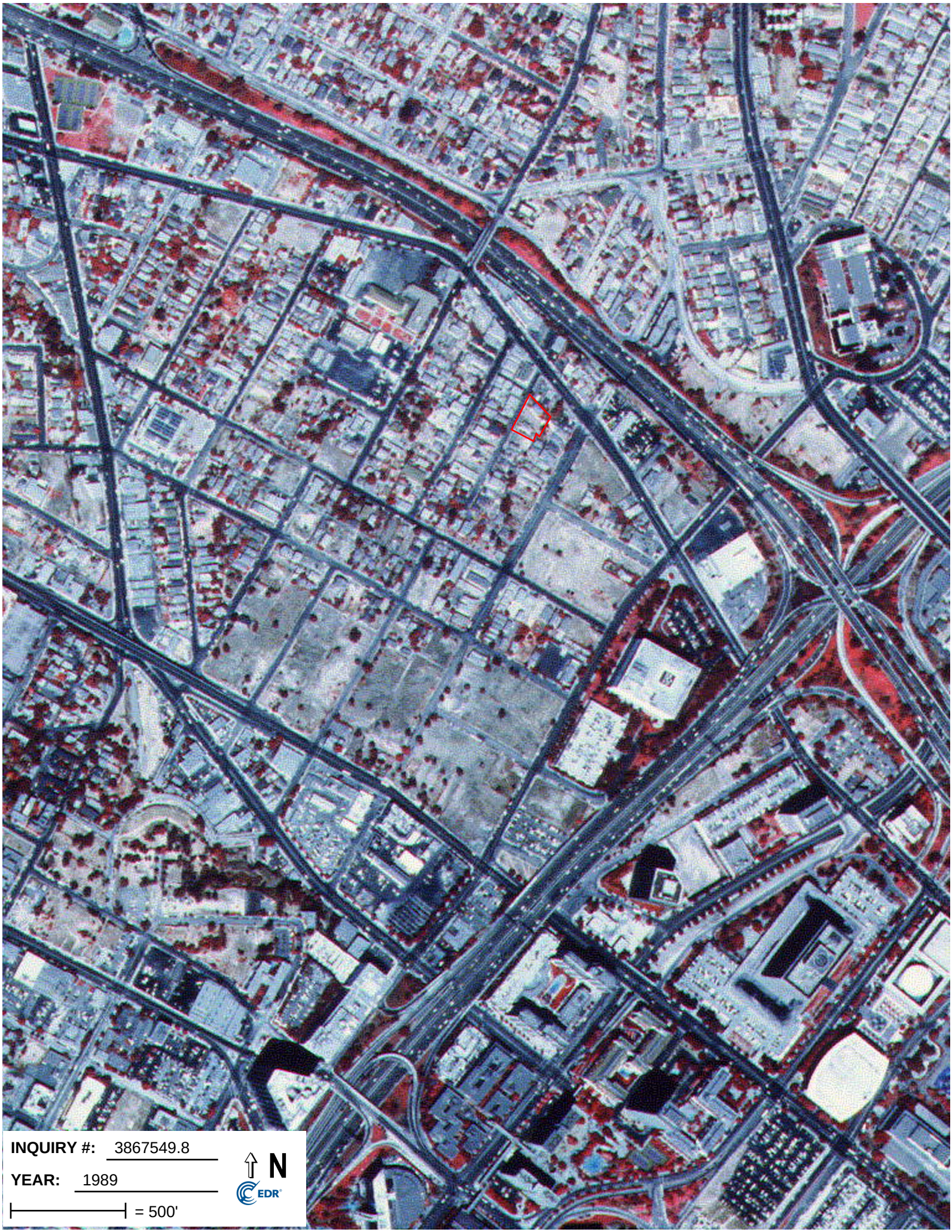

INQUIRY #: 3867549.8
YEAR: 1948
= 500'
N
EDR

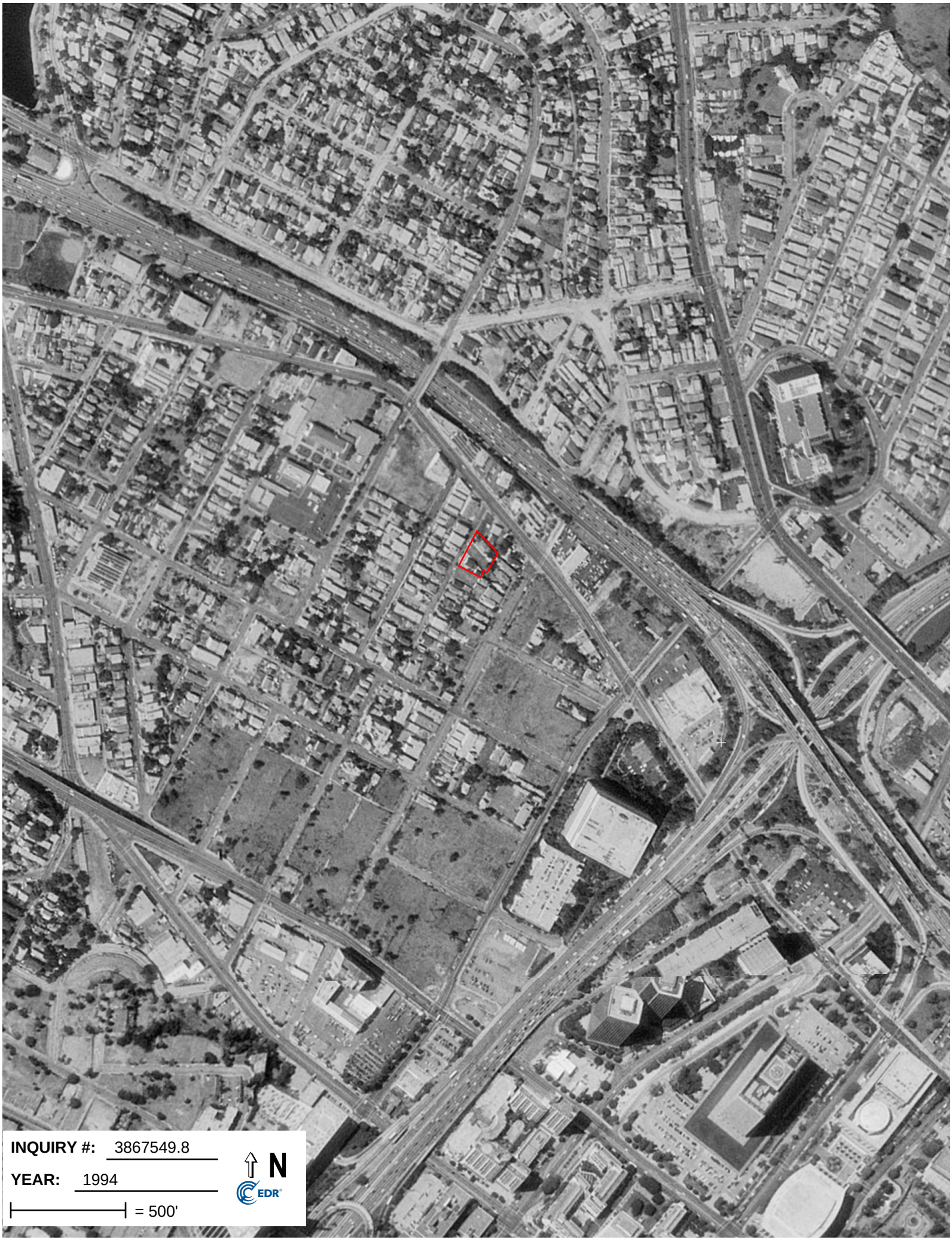

INQUIRY #: 3867549.8
YEAR: 1952
= 500'
N
EDR


INQUIRY #: 3867549.8
YEAR: 1964
= 500'
N
EDR


INQUIRY #: 3867549.8
YEAR: 1972
= 500'
N
EDR

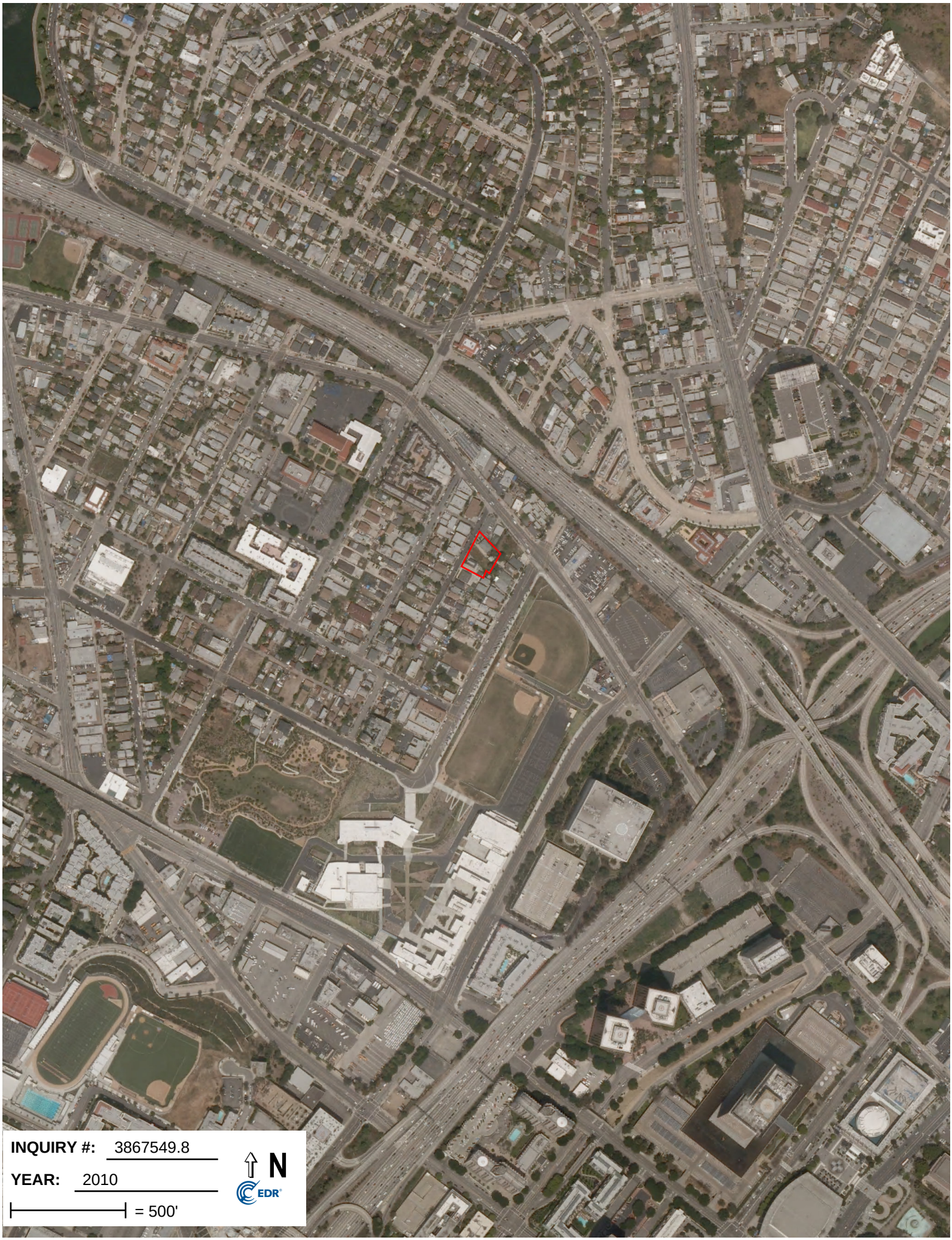

INQUIRY #: 3867549.8
YEAR: 1981
= 500'
N
EDR


INQUIRY #: 3867549.8
YEAR: 1989
= 500'
N
EDR


INQUIRY #: 3867549.8
YEAR: 1994
= 500'
N
EDR


INQUIRY #: 3867549.8
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 3867549.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 3867549.8
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 3867549.8
YEAR: 2012
= 500'
N
EDR

Bldg. Form 1

USE INK OR INDELIBLE PENCIL

3

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY

BUILDING DIVISION

Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM	REMOVED TO
Lot 1 Block 26	Lot
Tract	Tract

Present location of building } 418 Firmin (House Number and Street)

New location of building } (House Number and Street)

Between what cross streets } Temple — Meadow

Approved by City Engineer.

Deputy.

1. Purpose of PRESENT building Residence Families 1 Rooms 6 (Store, Residence, Apartment House, Hotel, or any other purpose)
2. Use of building AFTER alteration or moving same Families 1 Rooms 6
3. Owner (Print Name) Margherita Ferrera Phone
4. Owner's Address 945 Sunset blvd
5. Certificated Architect Jan Van Ra Linde State License No. 1505 Phone
6. Licensed Engineer same State License No. Phone
7. Contractor owner State License No. Phone
8. Contractor's Address —
9. VALUATION OF PROPOSED WORK {Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.} $ 2000
10. State how many buildings NOW on lot and give use of each. Residence + garage (Residence, Hotel, Apartment House, or any other purpose)
11. Size of existing building 51 x 28 Number of stories high 1 Height to highest point 15
12. Class of building D Material of existing walls Wood Exterior framework Wood (Wood or Steel)

Describe briefly and fully all proposed construction and work:

Plans see other side for details

Inside lot

No alley

12/12/40

Fill in Application on other Side and Sign Statement (OVER)

PERMIT NO. 50343	FOR DEPARTMENT USE ONLY 5379			Fee 9.00
	Plans and Specifications checked Approved	Zone R4	Fire District No. No	Stamp here when Permit is issued
	Corrections verified Approved	Bldg. Line No Ft.	Street Widening No Ft.	DEC 16 1940
	Plans, Specifications and Applications rechecked and approved	Application checked and approved 12/13/40 Clerk		
PLANS Rec'd	For Plans Fee	Filed with	SPRINKLER Required Valuation Included Specified Yes—No	Inspector Paul Bodine 17

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition 13 x 20 (5 x 13) Size of Lot 75 x 115 (front 75 back 130 each side) Number of Stories when complete 1

Material of Foundation Concrete Width of Footing 12 Depth of footing below ground 6

Width Foundation Wall 6 Size of Redwood Sill 2 x 6 Material Exterior Walls Stucco

Size of Exterior Studs 2 x 4 Size of Interior Bearing Studs 2 x 4

Joists: First Floor 2 x 6 Second Floor x Rafters 2 x 4 Roofing Material Composition

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State laws.

Sign Here Margherita Ferrero
(Owner or Authorized Agent)

By

FOR DEPARTMENT USE ONLY

Application 10776	Fire District 1	Bldg. Line 3	Termite Inspection
Construction 1	Zoning 2	Street Widening 3	Forced Draft Ventil

(1)
REINFORCED CONCRETE

Barrels of Cement

Tons of Reinforcing Steel

(2)
The building (and/or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

Street

Sign Here
(Owner or Authorized Agent)

(3)
No required windows will be obstructed.

Sign Here
(Owner or Authorized Agent)

(4)
There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

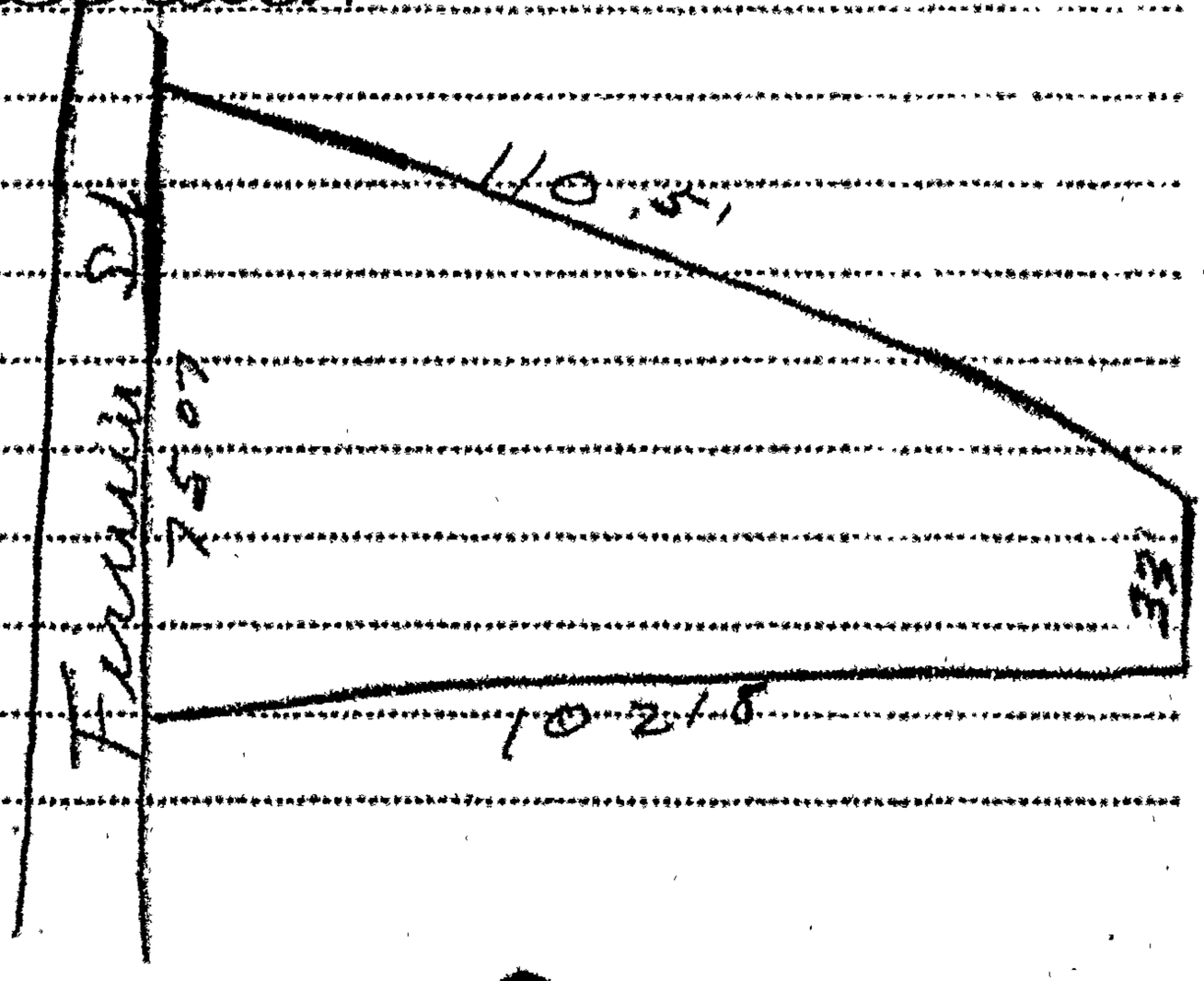
Sign Here
(Owner or Authorized Agent)

REMARKS: The rear two rooms of existing bldg to be wrecked and above additions to be built
New foundation and underpining beneath entire bldg
New plaster and hardwood floors
New stucco exterior
yard to be gone over
By Sam 12-6-40

PLAN CHECKING
RECEIPT NO. 4776
VALUATION $ 4000.00
FEE PAID $ 3.00

I hereby certify that there is no general contractor for this building or work.

(Signed)



Bldg. Form 3

USE INK OR INDELIBLE PENCIL

3

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
BUILDING DIVISION

Application to Alter, Repair, Move or Demolish

To the Board of Building and Safety Commissioners of the City of Los Angeles:

Application is hereby made to the Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

REMOVED FROM	REMOVED TO
Lot.....	Lot.....
.....	.....
Tract.....	Tract.....

Present location of building } 418 Fairmin St.
(House Number and Street)

New location of building } Fairmin
(House Number and Street)

Between what cross streets } .....

Approved by City Engineer.

.....
Deputy.

1. Purpose of PRESENT building..... Residence .....Families.....Rooms.....
(Store, Residence, Apartment House, Hotel, or any other purpose)
2. Use of building AFTER alteration or moving.....Families.....Rooms.....
3. Owner (Print Name)... Soriano .....Phone.....
4. Owner's Address..... 418 Fairmin St. .....
5. Certificated Architect.....State License No.....Phone.....
6. Licensed Engineer.....State License No.....Phone.....
7. Contractor ..... W. B. Sergeant State License No. B 8457 Phone.....
8. Contractor's Address..... 5826 W 31st St. .....
9. VALUATION OF PROPOSED WORK {Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.} $.....Reg. No. 214
10. State how many buildings NOW on lot and give use of each. } .....
(Residence, Hotel, Apartment House, or any other purpose)
11. Size of existing building.....x.....Number of stories high.....Height to highest point.....
12. Class of building.....Material of existing walls.....Exterior framework.....
(Wood or Steel)

Describe briefly and fully all proposed construction and work:

Interior Tile Work.

.....

.....

.....

.....

.....

Fill in Application on other Side and Sign Statement (OVER)

PERMIT NO.	FOR DEPARTMENT USE ONLY			Fee .....
9517	Plans and Specifications checked	Zone	Fire District No.	Stamp here when Permit is issued
	Corrections verified	Bldg. Line Ft.	Street Widening Ft.	APR 10 1941
PLANS Rec'd	Plans, Specifications and Applications rechecked and approved	Application checked and approved 4/10/41 Clerk		
	For Plans See	Filed with	SPRINKLER Required Valuation Included / Excluded Yes—No	Inspector J. M. Frazer

17

PLANS, SPECIFICATIONS, and other data must be filed if required.

NEW CONSTRUCTION

Size of Addition.....x.....Size of Lot.....x.....Number of Stories when complete.....

Material of Foundation.....Width of Footing.....Depth of footing below ground.....

Width Foundation Wall.....Size of Redwood Sill.....x.....Material Exterior Walls.....

Size of Exterior Studs.....x.....Size of Interior Bearing Studs.....x.....

Joists: First Floor.....x.....Second Floor.....x.....Rafters.....x.....Roofing Material.....

I have carefully examined and read both sides of this completed Application and know the same is true and correct and hereby certify and agree, if a Permit is issued, that all the provisions of the Building Ordinances and State Laws will be complied with whether herein specified or not; also certify that plans and specifications, if required to be filed, will conform to all of the provisions of the Building Ordinances and State laws.

Sign Here E. B. Seargeant
(Owner or Authorized Agent)

By.....

FOR DEPARTMENT USE ONLY

Application	Fire District.....	Bldg. Line	Termite Inspection.....
Construction.....	Zoning	Street Widening	Forced Draft Ventil.....

(1)
REINFORCED CONCRETE

Barrels of Cement.....

Tons of Reinforcing Steel.....

(2)
The building (and, or, addition) referred to in this Application is, or will be when moved, more than 100 feet from

.....Street

Sign Here.....
(Owner or Authorized Agent)

(3)
No required windows will be obstructed.

Sign Here.....
(Owner or Authorized Agent)

(4)
There will be an unobstructed passageway at least ten (10) feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign Here.....
(Owner or Authorized Agent)

REMARKS: .....

RECEIVED BLDG. & SAFETY
CASH ☐ CASHIERS CHECK ☐ MONEY ORDER ☐
CHECK
Opened By
Checked By

Bldg. Form 2

2

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY

BUILDING DIVISION

Application for the Erection of a Building

OF

CLASS "D"

To the Board of Building and Safety Co missioners of the City of Los Angeles:

Application is hereby made to th Board of Building and Safety Commissioners of the City of Los Angeles, through the office of the Superintendent of Building, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

Lot No. 1 Block 26

Tract

Location of Building 418 Fremont (House Number and Street)

Between what cross streets Temple - Beaudry

Approved by City Engineer

Deputy.

USE INK OR INDELIBLE PENCIL

1. Purpose of building Garage Families Rooms (Store, Residence, Apartment House, Hotel, or any other purpose)
2. Owner (Print Name) Margherita Ferrero Phone
3. Owner's address 928 Second St
4. Certificated Architect Jan Van Der Linde State License No. 1505 Phone
5. Licensed Engineer State License No. Phone
6. Contractor Owner State License No. Phone
7. Contractor's address — W. P.
8. VALUATION OF PROPOSED WORK (Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electrical wiring and/or elevator equipment therein or thereon.) $ 250.-
9. State how many buildings NOW on lot and give use of each. Residence & Garage (Store, Residence, Apartment House, Hotel, or any other purpose) 75 front 23 rear
10. Size of new building 20 x 20 No. Stories 1 Height to highest point 12 Size lot 102.5 x 110 irr
11. Type of soil Loam Foundation (Material) Concrete Depth in ground 6
12. Width of footing 12 Width of foundation wall 6 Size of redwood sill 2 x 6
13. Material exterior wall Stucco Size of studs: (Exterior) 2 x 4 (Interior bearing) 2 x 4
14. Joist: First floor none x Second floor none x Rafters 2 x 4 Material of roof Composition
15. Chimney (Material) — Size Flue x No. inlets each flue Depth footing in ground

I have carefully examined and read the above completed Application and know the same is true and correct, and hereby certify and agree that if a permit is issued all the provisions of the Building Ordinance and State Laws will be complied with whether herein specified or not; I also certify that plans and specifications filed will conform to all the Building Ordinances and State Laws.

Sign here X Margherita Ferrero (Owner or Authorized Agent)

Plans, Specifications and other data must be filed if required.

By

12/13/40

FOR DEPARTMENT USE ONLY 5547

PERMIT NO.	Plans and Specifications checked	Zone	Fire District	Fee 2.50
50337 /	Corrections verified	Bldg. Line No Ft.	Street Widening No Ft.	Stamp here when Permit is issued
PLANS Rec'd	Plans, Specifications and Application rechecked and approved	Application checked and approved 12/13/40 Clerk		DEC 16 1940
	For Plans See / Filed with	SPRINKLER Required / Valuation Included / Specified Yes—No		Inspector Paul Dehm 17

FOR DEPARTMENT USE ONLY

Application 1	Fire District 1	Bldg. Line 1	Forced Draft Ventil.
Construction	Zoning 1	Street widening 1	

(1)
REINFORCED CONCRETE

Barrels of Cement.....

Tons of Reinforcing Steel.....

(2)
The building referred to in this Application will be more than 100 feet from

.....Street

Sign here.....
(Owner or Authorized Agent)

(3) This building will be not less than 10 feet from any other building used for residential purposes on this lot.

Sign here.....
(Owner or Authorized Agent)

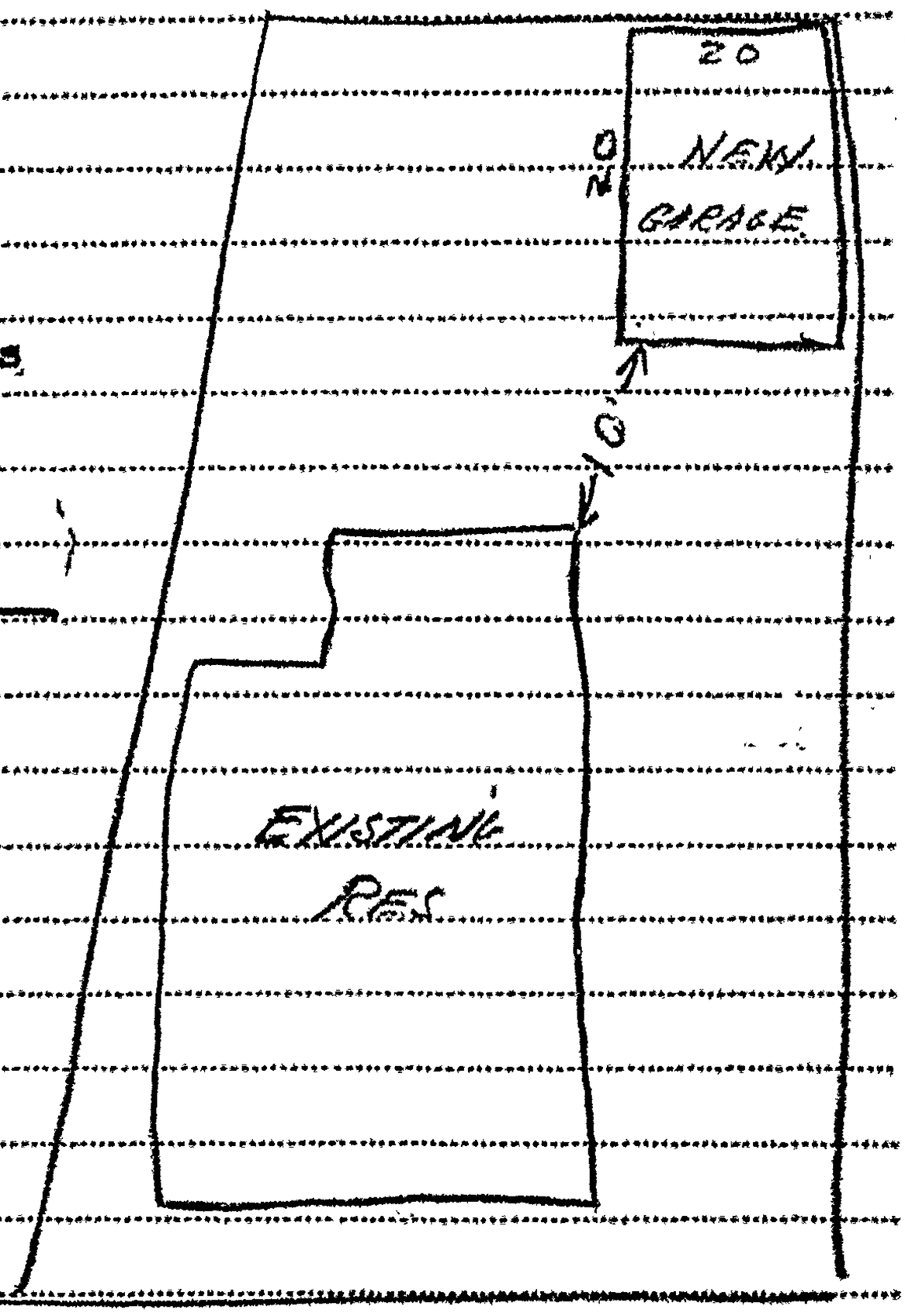
(4)
There will be an unobstructed passageway at least 10 feet wide, extending from any dwelling on lot to a Public Street or Public Alley at least 10 feet in width.

Sign here.....
(Owner or Authorized Agent)

REMARKS:.....

I hereby certify that there is no general contractor for this building or work.

(Signed)



APPLICATION FOR INSPECTION

CITY OF LOS ANGELES DEPT OF BUILDING AND SAFETY

TO ADD-ALTER-REPAIR-DEMOLISH AND FOR CERTIFICATE OF OCCUPANCY

INSTRUCTIONS: 1. Applicant to Complete Numbered Items Only.

1. LEGAL DESCR.	LOT: 8	BLOCK	TRACT: Byrans Subdivision of a part of Lot 1, MBlk 39 of Hancock's Survey	COUNCIL DISTRICT NO.	DIST. MAP: 135-209
					CENSUS TRACT: 2082
2. PRESENT USE OF BUILDING: (01 SFD)		NEW USE OF BUILDING: (01) & DEMO			ZONE: R4-2-0
3. JOB ADDRESS: 426 N. Firmin St.					FIRE DIST.: --
4. BETWEEN CROSS STREETS: Court St.		AND: Temple St.			LOT TYPE: Int
5. OWNER'S NAME: Percy Drabin			PHONE		LOT SIZE: 60x125
6. OWNER'S ADDRESS: 14416 Halmin St.		CITY: Van NUys	ZIP: 91401		
7. ENGINEER	BUS. LIC NO	ACTIVE STATE LIC NO	PHONE		ALLEY: --
8. ARCHITECT OR DESIGNER	BUS. LIC. NO.	ACTIVE STATE LIC NO.	PHONE		BLDG. LINE: -
9. ARCHITECT OR ENGINEER'S ADDRESS	CITY	ZIP			AFFIDAVITS: 253
10. CONTRACTOR: Cerrillo Wrecking Co.	BUS. LIC. NO.: 316229	ACTIVE STATE LIC. NO.	PHONE: 280-3985		ZAI2729-0
11. SIZE OF EXISTING BLDG. WIDTH: 24 LENGTH: 36	STORIES: 1	HEIGHT	NO. OF EXISTING BUILDINGS ON LOT AND USE: 1-SFD		CCPD
12. CONST. MATERIAL OF EXISTING BLDG. ⇒	EXT. WALLS: wood	ROOF: wood	FLOOR: wood		
13. JOB ADDRESS: 426 N. Firmin St.			STREET GUIDE		DISTRICT OFFICE: LA
14. VALUATION TO INCLUDE ALL FIXED EQUIPMENT REQUIRED TO OPERATE AND USE PROPOSED BUILDING	$ 1600				SEISMIC STUDY ZONE: -
15. NEW WORK (Describe): DEMO single family dwelling - HAND-WRECK - CLEAR LOT - SC # D 2774					GRADING: YES; FLOOD: --
					HWY. DED.: --; CONS.: --
NEW USE OF BUILDING: DEMO	SIZE OF ADDITION	STORIES: —	HEIGHT: —		ZONED BY: Vercher
TYPE: —	GROUP OCC.: --	FLOOR AREA: —	PLANS CHECKED		FILE WITH
DWELL UNITS: -1	MAX OCC.: --	TOTAL	APPLICATION APPROVED: L Bugder		TYPIST: RG
GUEST ROOMS: —	PARKING REQ'D: —	PARKING PROVIDED: STD. COMP.	INSPECTION ACTIVITY: COMB. | GEN. | MAJ. S. | CONS.		INSPECTOR

PC: —	GPI:	CONT INSP	
SPC	PM		
BP: 16.60	EI: 0.50	Claims for refund of fees paid on permits must be filed: 1 Within one year from date of payment of fee, or 2 Within one year from date of expiration of extension for building or grading permits granted by the Dept. of B & S SECTIONS 22.12 & 22.13 LAMC	
IF	OSS: 1.00		
O/S	SOSS		
DIST OFFICE: LA	C/O	SPRINKLERS REQ'D SPEC	
P.C. NO		ENERGY: NONE	

PLAN CHECK EXPIRES ONE YEAR AFTER FEE IS PAID PERMIT EXPIRES TWO YEARS AFTER FEE IS PAID OR 180 DAYS AFTER FEE IS PAID IF CONSTRUCTION IS NOT COMMENCED

CASHIER'S USE ONLY

50 EI
1.00 OSS
16.60 B-C
682 84 00a
02775 2 07/18/83 18.10 CHTD

B & S B-3 (R 1.83)

DECLARATIONS AND CERTIFICATIONS

LICENSED CONTRACTORS DECLARATION

16. I hereby affirm that I am licensed under the provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Date 7/18/83 Class C-21 Lic. Number 316229 Contractor X Jose A. Camillo (Signature)

OWNER-BUILDER DECLARATION

17. I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

[ ] I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.).

[ ] I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

[ ] I am exempt under Sec. _____, B. & P. C. for this reason _____

Date _____ Owner's Signature _____

WORKERS' COMPENSATION DECLARATION

18. I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.).

Policy No. BT 010770 05 Insurance Company ZENITH (1-1-84)

[ ] Certified copy is hereby furnished.

[X] Certified copy is filed with the Los Angeles City Dept of Bldg. & Safety.

Date 7/18/83 Applicant's Signature X Jose A. Camillo

Applicant's Mailing Address 2041 N. Lily Ln. (Los Angeles 90032)

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

19. I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date _____ Applicant's Signature _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

20. I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.).

Lender's Name _____ Lender's Address _____

21. I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

I realize that this permit is an application for inspection, that it does not approve or authorize the work specified herein, that it does not authorize or permit any violation or failure to comply with any applicable law, that neither the city of Los Angeles nor any board, department, officer or employee thereof make any warranty or shall be responsible for the performance or results of any work described herein or the condition of the property or soil upon which such work is performed. (Sec Sec. 91.0202 LAMC)

Signed X Jose A. Camillo owner 7-18-83
(Owner or agent having property owner's consent) Position Date

Sigur 7-18-83

0 2 9 0 0 3 0 0 0 7 3

CLEAR LOT

2

Application for Relocation of Building AND FOR A Certificate of Occupancy

CITY OF LOS ANGELES
DEPARTMENT
OF
BUILDING AND SAFETY
BUILDING DIVISION

From Lot 21 Blk 8 | To Lot 6
Tract PARK TRACT | By Mars Subdivision of a Part of the Tract Lots 38 & 39 of Hancock's Survey

Present location of building: 488 Custer St (House Number and Street)
New location of building: 426 Fircrest St. (House Number and Street)
Between what cross streets: Temple & Southern Terr.

Approved by City Engineer [signature] Deputy.

USE INK OR INDELIBLE PENCIL

1. Present use of building Dwelling (Store, Dwelling, Apartment House, Hotel or other purpose) Families 1 Rooms 5
2. Use of building AFTER Relocation Dwelling Families 1 Rooms 5
3. Owner [redacted] Deasin, Family (Print Name) Phone Mi-1764
4. Owner's Address 488 Custer P.O. Los Angeles (42)
5. Certificated Architect — State License No. — Phone
6. Licensed Engineer — State License No. — Phone
7. Contractor — State License No. — Phone
8. Contractor's Address owner
9. VALUATION OF PROPOSED WORK (including all labor and material and all permanent fixtures, heating, ventilating, water supply, fire sprinkler, electrical wiring and apparatus, equipment thereon or therein.) $ 100 J.B.C.
10. State how many buildings now on new lot and give use of each: ONE GARAGE (Store, Dwelling, Apartment House, Hotel or other purpose) Show new Plot Plan on back of Application
11. Size of building to be moved 30 x 40 Number of stories high 1 Height to highest point 14'
12. Material Exterior Walls Wood (Wood, Steel or Masonry) Exterior framework Wood (Wood or Steel)
13. Describe briefly all proposed construction and work: To be moved to lot as shown

NEW CONSTRUCTION

14. Size of Addition None Size of Lot 50 x 130 Number of Stories when complete
15. Footing: Width — Depth in Ground — Width of Wall — Size of Floor Joists x
16. Size of Studs x Material of Floor — Size of Rafters x Type of Roofing

I hereby certify that to the best of my knowledge and belief the above application is correct and that the building or construction work will comply with all laws, and that in the doing of the work authorized thereby I will not employ any person in violation of the Labor Code of the State of California relating to Workmen's Compensation Insurance.

Sign here [signature] (Owner or Authorized Agent)

District Office — By

FOR DEPARTMENT USE ONLY

(1) PLAN CHECKING
Receipt No.
Valuation $
Fee Paid $

Application For Receipt No. SEP 12 1947 10553
Date Approved 9-15-47 Bond For 990
Surety Bond Posted. Date
Cash Bond Posted. Date SEP 23 1947

FEES Const. or Occupancy
Total $ 3.50

TYPE	OCCUP	Building No.	Inside Lot / Corner Lot	Key Lot / Corner Lot Reqrd	Lot Area
1	U				7500

PERMIT No. 25137

Plans and Specifications Checked

Corrections Called

Plans, Specifications and Application Rechecked and Approved

PLANS

Set #

For Plans See — Plan Sht.

Zone 1 & 4 — Fire District No. —
Bldg. Line — ft. — Setback, Widening — ft.
Street Opening Permit 23751
Application Checked and Approved — Clerk

Bldg. Perm. —
Plumb. Perm. —
Heating Perm. —
Permit No. 5579
Permit Issued SEP 23 1947
Inspector

Form B-3-4M-7-47

Grade

130'

15'

Property Line

5'

Set back as required

50'

Street

Address of Building 426 Firmin Street

Permit No. and Year 25487, 1947

Certificate Issued August 3, 19 51

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY

CERTIFICATE OF OCCUPANCY

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned, the building at above address complies with the applicable requirements of the Municipal Code, as follows: Ch. 1, as to permitted uses; Ch. 9, Arts. 1, 3, 4, and 5; and with applicable requirements of State Housing Act,—for following occupancies:

1 Story, Type V, One-family Dwelling,
R-1 Occupancy

OVER

Owner

Owner's Address F. Drabin
488 Custer
Los Angeles 62, California

FILE COPY ONLY - ISSUED TO CORRECT RECORDS.

Form B-93m—20M—3-51 G. E. MORRIS, Superintendent of Building By John D. Miller (yf)

9-22-55-X38918
1 sty, V, 27' x 36' 1-fam. dwl. R-1 occ.

430 N Firmin St

Permit #: **16016 - 90000 - 01151**
Plan Check #:
Event Code:
Printed: 01/19/16 10:32 PM

Bldg-Alter/Repair
1 or 2 Family Dwelling
Express Permit
No Plan Check

City of Los Angeles - Department of Building and Safety

APPLICATION FOR BUILDING PERMIT
AND CERTIFICATE OF OCCUPANCY

Issued On: 01/19/2016
Last Status: Issued
Status Date: 01/19/2016

1. TRACT	BLOCK	LOT(s)	ARB	COUNTY MAP REF #	PARCEL ID # (PIN #)	2. ASSESSOR PARCEL #
BYRAM'S SUBDIVISION OF A		7		M R 6-391	135A211 105	5160 - 022 - 006

3. PARCEL INFORMATION

Area Planning Commission - Central
LADBS Branch Office - LA
Council District - 1
Certified Neighborhood Council - Greater Echo Park Elysian
Community Plan Area - Westlake
Census Tract - 2080.00
District Map - 135A211
Energy Zone - 9
Fire District - 2
Hillside Grading Area - YES
Methane Hazard Site - Methane Zone
Near Source Zone Distance - .8
School Within 500 Foot Radius - YES
Thomas Brothers Map Grid - 634-E2

ZONE(S): CW

4. DOCUMENTS

ZI - ZI-1195
ZI - ZI-2374 LOS ANGELES STATE
ZI - ZI-2427 FWY Adj Advisory Notice for
SPA - Central City West
ORD - ORD-156166
ORD - ORD-164605-SA470
ORD - ORD-164625-SA470
ORD - ORD-166703
ORD - ORD-166704
ORD - ORD-166705
ORD - ORD-167944
ORD - ORD-169110
ORD - ORD-176519
ORD - ORD-179420
ORD - ORD-180983
CPC - CPC-1986-605-GPC

5. CHECKLIST ITEMS

6. PROPERTY OWNER, TENANT, APPLICANT INFORMATION

Owner(s):
JUATCO, JESUSA M TR J M JUATCO TRUST 430 FIRMIN ST LOS ANGELES CA 90026

Tenant:

Applicant: (Relationship: Net Applicant)
HEATHER MARQUEZ 602 N BRAND BLVD SAN FERNANDO, CA 91340 (310) 650-5333

7. EXISTING USE
(01) Dwelling - Single Family

PROPOSED USE

8. DESCRIPTION OF WORK
Reroof with 34 sqrs COMP SHINGLE roofing. Existing solid sheathing.
Re-roof with Class A or B material weighing less than 6 pounds per sq. ft. For residential roof replacement > 50% of the total roof area, apply Cool Roof Product labeled and certified by Cool Roof Rating Council (CRRC). Cool Roof may be required for non-residential buildings per Title 24, Part 6, Section 149(b).

9. # Bldgs on Site & Use:

10. APPLICATION PROCESSING INFORMATION

BLDG. PC By:
DAS PC By :
OK for Cashier:
Coord. OK :
Signature:
Date :

For inspection requests, call toll-free **(888) LA4BUILD (524-2845)**. Outside LA County, call (213) 473-3231 or request inspections via **www.ladbs.org**. To speak to a Call Center agent, call **311** or (866) 4LACITY (452-2489). Outside LA County, call (213) 473-3231.

For Cashier's Use Only **W/O #: 61601151**

11. PROJECT VALUATION & FEE INFORMATION **Final** Fee Period

Permit Valuation: $6,800.00 PC Valuation:

FINAL TOTAL Bldg-Alter/Repair	192.83
Permit Fee Subtotal Bldg-Alter/Repair	125.00
E.Q. Instrumentation	0.88
O.S. Surcharge	3.06
Sys. Surcharge	9.17
Planning Surcharge	9.12
Planning Surcharge Misc Fee	10.00
Planning Gen Plan Maint Surcharge	7.60
CA Bldg Std Commission Surcharge	1.00
Permit Issuing Fee	27.00
Permit Fee-Single Inspection Flag	

Sewer Cap ID: Total Bond(s) Due:

Payment Date:01/19/16
Receipt No:ON113594
Amount: $192.83

2016OL11134

12. ATTACHMENTS

13. STRUCTURE INVENTORY (Note: Numeric measurement data in the format "number / number" implies "change in numeric value / total resulting numeric value")

16016 - 90000 - 01151

14. APPLICATION COMMENTS:

E-Permit paid by credit card, fax number-> (424)269-0681. Toilet and shower water conservation devices required. Installation of smoke and carbon monoxide detectors may be required as per 91.5R314.6 and 91.5R315.2 of the LARC and the Health and Safety Code Section 13113.7.

In the event that any box (i.e. 1-16) is filled to capacity , it is possible that additional information has been captured electronically and could not be printed due to space restrictions. Nevertheless the information printed exceeds that required by section 19825 of the Health and Safety Code of the State of California.

15. BUILDING RELOCATED FROM:

16. CONTRACTOR, ARCHITECT, & ENGINEER NAME	ADDRESS		CLASS	LICENSE #	PHONE #
(C) QUALITY ROOFING GROUP INC	602 NORTH BRAND	SAN FERNANDO, CA 91340	C39	998938	(310) 650-5333

PERMIT EXPIRATION/REFUNDS : This permit expires two years after the date of the permit issuance. This permit will also expire if no construction work is performed for a continuous period of 180 days (Sec. 98.0602 LAMC). Claims for refund of fees paid must be filed within one year from the date of expiration for permits granted by LADBS (Sec. 22.12 & 22.13 LAMC). The permittee may be entitled to reimbursement of permit fees if the Department fails to conduct an inpection within 60 days of receiving a request for final inspection (HS 17951).

17. LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under the provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. The following applies to B contractors only: I understand the limitations of Section 7057 of the Business and Professional Code related to my ability to take prime contracts or subcontracts involving specialty trades.

License Class: **C39** License No.: **998938** Contractor: **QUALITY ROOFING GROUP INC**

18. WORKERS' COMPENSATION DECLARATION

I hereby affirm, under penalty of perjury, one of the following declarations:

(__) I have and will maintain a certificate of consent to self insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

(X) I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier: **STATE COMP. INS. FUND** Policy Number: **9117520**

(__) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

19. ASBESTOS REMOVAL DECLARATION / LEAD HAZARD WARNING

I certify that notification of asbestos removal is either not applicable or has been submitted to the AQMD or EPA as per section 19827.5 of the Health and Safety Code. Information is available at Lead safe construction practices are required when doing repairs that disturb paint in pre-1978 buildings due to the presence of lead www.aqmd.gov (909) 396-2336 and the notification form at per section 6716 and 6717 of the Labor Code. Information is available at Health Services for LA County at (800) 524-5323 or the State of California at (800) 597-5323 or www.dhs.ca.gov/childlead

20. CONSTRUCTION LENDING AGENCY DECLARATION

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civil Code).

Lender's Name (If Any): _____ Lender's Address: _____

21. FINAL DECLARATION

I certify that I have read this application **INCLUDING THE ABOVE DECLARATIONS** and state that the above information **INCLUDING THE ABOVE DECLARATIONS** is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes. I realize that this permit is an application for inspection and that it does not approve or authorize the work specified herein, and it does not auhorize or permit any violation or failure to comply with any applicable law. Furthermore, neither the City of Los Angeles nor any board, department officer, or employee thereof, make any warranty, nor shall be responsible for the performance or results of any work described herein, nor the condition of the property nor the soil upon which such work is performed. I further affirm under penalty of perjury, that the proposed work will not destroy or unreasonably interfere with any access or utility easement belonging to others and located on my property, but in the event such work does destroy or unreasonably interfere with such easement, a substitute easement(s) satisfactory to the holder(s) of the easement will be provided (Sec. 91.0106.4.3.4 LAMC).

By signing below, I certify that:

(1) I accept all the declarations above namely the Licensed Contractor's Declaration, Workers' Compensation Declaration, Asbestos Removal Declaration / Lead Hazard Warning, Construction Lending Agency Declaration, and Final Declaration; and

(2) This permit is being obtained with the consent of the legal owner of the property.

Print Name: **HEATHER MARQUEZ** Sign: **Internet e-Permit System Declaration** Date: **01/19/2016** [X] Contractor [ ] Authorized Agent

EXPRESS PERMIT INSPECTION RECORD

CITY LA DBS
DEPARTMENT OF BUILDING AND SAFETY

Your feedback is important. Please visit our website to complete a Customer Survey at **www.ladbs.org/LADBSWeb/customer-survey.jsf**. If you would like to provide additional feedback, need clarification, or have any questions regarding plan check or inspection matters, please call our Customer Hotline at (213) 482-0056.

For use by cashier only

Payment Date: 01/19/16
Receipt No: ON113594
Amount: $192.83
Method: Credit Card

PERMIT #: 16016 - 90000 - 01151
ADDRESS: 430 N Firmin St
OWNER: JUATCO, JESUSA M TR J M JUATCO TRUST
430 FIRMIN ST
LOS ANGELES CA 90026

Bldg-Alter/Repair
1 or 2 Family Dwelling
Express Permit
No Plan Check

JOB DESCRIPTION: Reroof with 34 sqrs COMP SHINGLE roofing. Existing solid sheathing.
Re-roof with Class A or B material weighing less than 6 pounds per sq. ft. For residential roof replacement > 50% of the total roof area, apply Cool Roof Product labeled and certified by Cool Roof Rating Council (CRRC). Cool Roof may be required for non-

INSPECTION RECORDS AND PLANS MUST BE AVAILABLE DURING INSPECTION

GRADING INSPECTIONS		
TYPE	DATE	INSPECTOR
Initial Grading		
Toe or Bottom		
Soils Report Approved		
DO NOT PLACE FILL UNTIL ABOVE IS SIGNED		
Backfill		
Fill		
Excavation		
Drainage Devices		
Rough Grading		
Approved Compaction Report		
FOOTING INSPECTIONS		
Footing Excavation		
Forms		
Reinforcing Steel		
OK to Place Concrete		
GROUNDWORK INSPECTIONS		
Electrical		
Plumbing		
Plumbing Methane		
Gas Piping		
Heating & Refrigeration		
Fire Sprinklers		
Disabled Access		
Methane		
OK to Place Floor		
DO NOT PLACE FLOOR UNTIL ABOVE IS SIGNED		
ROUGH INSPECTIONS		
Green Code		
Electrical		
Plumbing		
Fire Sprinkler		
Heating & Refrigeration		
Roof Sheathing		
Disabled Access		
Framing		
Insulation		
Suspended Ceiling		
OK to Cover		

FOR INSPECTION REQUESTS, PLEASE CALL
3-1-1 OR OUTSIDE CITY OF LOS ANGELES
888-LA4-BUILD (888)524-2845 or www.ladbs.org

DO NOT COVER UNTIL PREVIOUS IS SIGNED		
TYPE	DATE	INSPECTOR
Exterior Lathing		
Interior Lathing		
Drywall		
DO NOT COVER UNTIL ABOVE IS SIGNED		
WORK OUTSIDE OF THE BUILDING		
Electrical Underground		
Gas		
Heating & Refrigeration		
Sewer		
Disabled Access		
POOL INSPECTIONS		
Excavation		
Reinforcing Steel		
Bonding		
Piping		
Pre-Gunite		
Deck		
Enclosure/Fence		
Pool/Spa Cover		
DO NOT FILL POOL UNTIL ABOVE IS SIGNED		
FINAL INSPECTIONS		
Grading		
Electrical		
Plumbing		
Gas Test		
Gas		
Heating & Refrigeration		
Pressure Vessels		
Elevator		
Fire Sprinkler		
Disabled Access		
Green Building		
LAFD (Title 19 only)		
LAFD Fire Life Safety		
Pool Final		
AQMD Sign-off Provided		
Public Works		
Building		
PROJECT FINAL		

Certificate of Occupancy Required ☐ **YES** ☐ **NO**

B- 8 Card re v. 042011 RO

SUPPLEMENTAL NOTES:

IMPORTANT NOTICE

* **Prior to the start of any construction work adjacent to any public way, pedestrian protection shall be provided (Sec. 91.3303 L.A.M.C.).**
* Inspection(s) may be requested anytime via the internet or touch tone phone. To request an inspection via the internet, go to www.ladbs.org and click on "Request an Inspection" under Online Services. To request an inspection via touch tone phone, call toll free (888) LA4BUILD (888-524-2845) and select option 1 for Automated Request System. To request an inspection via the Customer Call Center, call 3-1-1 within the City of Los Angeles or (213) 473-3231 outside the City of Los Angeles between 7:00 a.m. and 10:00 p.m. When requesting an inspection, the following are required: (1)The job address, (2)Type of inspection, (3)Use of building, (4)Permit number, (5)Phone number of a contact person should the department need to reach someone.
* Inspection requests received before 4:00 p.m. Monday through Friday (excluding holidays) will normally be made the next business day. Requests received after 4:00 p.m. will be made following the next business day. The Automated Inspection Call Back System (AICBS) will attempt to telephone the contact phone number to confirm the Inspection.
* Permit fees provide for a limited number of inspections. A reinspection fee may be assessed when the work for which an inspection was requested is not complete, when the inspection record or plans are not available, or when there is failure to provide site access to department staff.
* No person shall perform any construction or repair work between the hours of 9:00 p.m.(6:00 p.m. grading) and 7:00 a.m. the following day which results in loud noises to the disturbance of persons occupying sleeping quarters in any dwelling , hotel, motel, apartment, or other place of residence (Sec. 41.40 L.A. M.C.).
* No person, other than an individual homeowner engaged in the repair or construction of his/her single-family dwelling, shall perform any construction or repair work of any kind upon any building or structure located on land developed with residential buildings or perform work within 500 feet of land so occupied, before 8:00 a.m. or after 6:00 p.m. on any Saturday or at any time on Sunday (Sec. 41.40 L.A.M.C.).
* Dust control measures to prevent dust from being blown or deposited over or upon any private property in any residential area must be implemented during any excavation or earth-moving phase of construction, sand blasting , or demolition.
* A separate permit from the State of California Division of Industrial Safety is required prior to starting certain work involving substantial risk to workers such as: construction or demolition exceeding 3 stories or 36 feet in height, or excavations or trenches over 5 feet in depth involving entry by workers.
* Building permits are valid for two years or expire on the 180th day from the date of issuance if the work permitted has not commenced. The department reserves the right to expire any permit where work has been suspended for a period of 180 days or more.
* Inspection services will not be provided when there is an unleashed dog on the premises.

BUILDING AND SAFETY PERMIT AND PLAN CHECK OFFICE LOCATIONS

Downtown Los Angeles
201 N. Figueroa St., 4th Fl.
Los Angeles, CA 90012

Van Nuys
6262 Van Nuys Blvd., 2nd Fl.
Van Nuys, CA 91401

West Los Angeles
1828 Sawtelle Blvd., 2nd Fl.
Los Angeles, CA 90025

San Pedro
638 S. Beacon St., 2nd Fl.
San Pedro, CA 90731

South Los Angeles
8475 S. Vermont Ave., 2nd Fl.
Los Angeles, CA 90044

All Applications must be filled out by Applicant

Bldg. Form 2

PLANS AND SPECIFICATIONS and other data must also be filed

2

BOARD OF PUBLIC WORKS

DEPARTMENT OF BUILDINGS

Application for the Erection of Frame Buildings

CLASS "D"

To the Board of Public Works of the City of Los Angeles:

Application is hereby made to the Board of Public Works of the City of Los Angeles, through the office of the Chief Inspector of Buildings, for a building permit in accordance with the description and for the purpose hereinafter set forth. This application is made subject to the following conditions, which are hereby agreed to by the undersigned applicant and which shall be deemed conditions entering into the exercise of the permit:

First: That the permit does not grant any right or privilege to erect any building or other structure therein described, or any portion thereof, upon any street, alley, or other public place or portion thereof.

Second: That the permit does not grant any right or privilege to use any building or other structure therein described, or any portion thereof, for any purpose that is, or may hereafter be prohibited by ordinance of the City of Los Angeles.

Third: That the granting of the permit does not affect or prejudice any claim of title to, or right of possession in, the property described in such permit.

TAKE TO REAR OF NORTH ANNEX 1st FLOOR CITY CLERK PLEASE VERIFY

Lot No. 8 Block —

(Description of Property) Byrom's Tract

District No. ..... M. B. Page ..... F. B. Page .....

TAKE TO ROOM No. 405 SOUTH ANNEX ENGINEER PLEASE VERIFY

No. 430 Firmin St Street

(Location of Job) Temple & Court Sts

O.K. City Clerk

By ..... Deputy

O.K. City Engineer

By ..... Deputy

(USE INK OR INDELIBLE PENCIL)

1. Purpose of Building Garage No. of Rooms 1 No. of Families —
2. Owner's name Harry R Jones Phone Bdwy 1372
3. Owner's address 430 Firmin St.
4. Architect's name ..... Phone .....
5. Contractor's name ..... Phone .....
6. Contractor's address .....
7. VALUATION OF PROPOSED WORK {Including Plumbing, Gas Fitting, Sewers, Cesspools, Elevators, Painting, Finishing, all Labor, etc.} $ 80.00
8. Is there any existing (old) building on lot? No How used? .....
9. Size of proposed building 18 x 20 Height to highest point 14 ft feet
10. Number of Stories in height One Character of ground .....
11. Material of foundation Cement Size of footings — Size of wall — Depth below ground —
12. Material of chimneys — Number of inlets to flue — Interior size of flues ..... x .....
13. Give sizes of following materials: REDWOOD MUDSILLS 6 x 6 Girders — x .....
EXTERIOR studs 4 x 3 INTERIOR BEARING studs — x — Interior Non-Bearing studs
..... x ..... Ceiling joists 4 x 6 Roof rafters 4 x 3 FIRST FLOOR JOISTS — x .....
Second floor joists ..... x ..... Specify material of roof Galvanized Iron
14. Will all provisions of State Dwelling House Act be complied with? .....

I have carefully examined and read the above application and know the same is true and correct, and that all provisions of the Ordinances and Laws governing Building Construction will be complied with, whether herein specified or not.

OVER

(Sign here) Harry R Jones
(Owner or Authorized Agent.)

FOR DEPARTMENT USE ONLY

PERMIT No.	Plans and Specifications checked and found to conform to Ordinances, State Laws, etc.	Application checked and found O. K.	Stamp here when permit is issued.
42784	..... Plan Examiner	11/23/22 ..... Clerk	RECEIVED NOV 23 1922 CITY CLERK'S OFFICE

Chas Wm Lee

150

FOR DEPARTMENT USE ONLY

APPLICATION	O. K.
CONSTRUCTION	O. K.
ZONING	O. K.
SET-BACK LINE	O. K.
ORD. 33761 (N. S.)	O. K.
FIRE DISTRICT	O. K.

REMARKS

430 N Firmin St

Permit #: **04042 - 90000 - 12101**
Plan Check #:
Event Code:
Printed: 04/28/04 10:10 AM

Plumbing
1 or 2 Family Dwelling
Express Permit
No Plan Check

City of Los Angeles - Department of Building and Safety

APPLICATION FOR PLUMBING PLAN CHECK AND INSPECTION

Issued On: 04/28/2004
Last Status: Issued
Status Date: 04/28/2004

1. PROPERTY OWNER

Juatco, Jesusa M | 430 Firmin St | LOS ANGELES CA 90026

2. APPLICANT INFORMATION (Relationship: Net Applicant)

Mas Wakimoto - | 5457 S Crenshaw Blvd | LOS ANGELES, CA 90043 | (323) 296-8787

3. TENANT INFORMATION

4. CONTRACTOR, ARCHITECT, & ENGINEER NAME

			CLASS	LICENSE#	PHONE #
(C) Adee Bob Plbg & Htg	5457 S Crenshaw Blvd,	Los Angeles, CA 90043	C36	240186	3232968787

5. APPLICATION COMMENTS

E-Permit paid by credit card, fax number-> (323)290-8139.

6. DESCRIPTION OF WORK

SEWER REPAIR

7. COUNCIL DISTRICT: 1

8. APPLICATION PROCESSING INFORMATION

PC OK By:

OK for Cashier:

Signature: _____ Date: _____

For information and/or inspection requests originating within LA County,

Call toll-free (888) LA4BUILD

Outside LA County, call (213)-977-6941. (LA4BUILD = 524-2845)

For Cashier's Use Only **W/0 #: 44212101**

Project Name:

430 N Firmin St 04042-90000-12101

In the event that any box (i.e. 1-10) is filled to its capacity, it is possible that additional information has been captured electronically and could not be printed due to space restrictions. Nevertheless, the information printed exceeds that required by Section 19825 of the Health and Safety Code of the State of California.

9. FEE INFORMATION **Inspection Fee Period**

Permit Fee: **43.40**

INSPECTION TOTAL Plumbing	43.40
Permit Total	43.40
Permit Fee Subtotal Plumbing	40.00
Permit One Stop Surcharge	1.00
Permit Sys. Development Surcharge	2.40
Permit Issuing Fee	0.00

Payment Date: 04/28/04
Receipt No: IN050137267
Amount: $43.40

04042 - 90000 - 12101

10. FEE ITEM INFORMATION

SEWER AND WASTE		
Sewer Alter/Repair/Cap	(1)	17.00

PERMIT EXPIRATION

This permit expires two years after the date of the permit issuance. This permit will also expire if no construction work is performed for a continuous period of 180 days (Sec. 98.0602 LAMC). Claims for refund of fees paid must be filed within one year from the date of expiration for permits granted by LADBS (Sec. 22.12 & 22.13 LAMC).

11. LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under the provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. If doing work on a residential property, I certify that I hold a valid certification as a Home Improvement contractor per Business and Professions Code, Section 7150.2c. The following applies to B contractors only: I understand the limitations of Section 7057 of the Business and Professional Code related to my ability to take prime contracts or subcontracts involving specialty trades.

License Class: **C36** Lic. No.: **240186** Contractor: **ADEE PLUMBING & HEATING, INC**

12. WORKERS' COMPENSATION DECLARATION

I hereby affirm, under penalty of perjury, one of the following declarations:

(__) I have and will maintain a certificate of consent to self insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

(**X**) I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier: **STATE FUND COMPENSATION** Policy Number: **1622969-01**

(__) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

13. ASBESTOS REMOVAL DECLARATION

I certify that notification of asbestos removal is either not applicable or was sent to the AQMD or EPA as per section 19827.5 of the Health and Safety Code.

14. CONSTRUCTION LENDING AGENCY DECLARATION

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civil Code).

Lender's name (if any):_____ Lender's address:_____

15. FINAL DECLARATION

I certify that I have read this application **INCLUDING THE ABOVE DECLARATIONS** and state that the above information **INCLUDING THE ABOVE DECLARATIONS** is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes. I realize that this permit is an application for inspection and that it does not approve or authorize the work specified herein, and it does not authorize or permit any violation or failure to comply with any applicable law. Furthermore, neither the City of Los Angeles nor any board, department officer, or employee thereof, make any warranty, nor shall be responsible for the performance or results of any work described herein, nor the condition of the property nor the soil upon which such work is performed. I further affirm under penalty of perjury, that the proposed work will not destroy or unreasonably interfere with any access or utility easement belonging to others and located on my property, but in the event such work does destroy or unreasonably interfere with such easement, a substitute easement(s) satisfactory to the holder(s) of the easement will be provided (Sec. 91.0106.4.3.4 LAMC).

By signing below, I certify that:

(1) I accept all the declarations above namely the Licensed Contractor's Declaration, Workers' Compensation Declaration, Asbestos Removal Declaration, Construction Lending Agency Declaration and Final Declaration; and

(2) This permit is being obtained with the consent of the legal owner of the property.

Print Name: **MAS WAKIMOTO** Sign: **Internet ePermit System Declaration** Date: **04/28/2004** [X] Contractor [ ] Authorized Agent

Parcel Details

- How frequently is this site updated?
  (and other FAQs)

Property Information

Assessor's ID No:	5160-022-012
Address:	418 FIRMIN ST LOS ANGELES CA 90026
Property Type:	Single Family Residential
Region / Cluster:	09 / 09174
Tax Rate Area (TRA):	00067

- View Assessor Map
- View Index map

Recent Sales Information

Latest Sale Date:
Indicated Sale Price:

Search for Recent Sales

2016 Roll Values

Recording Date:	03/25/2014
Land:	$433,267
Improvements:	$108,316
Personal Property:	$0
Fixtures:	$0
Homeowners' Exemption:	$0
Real Estate Exemption:	$0
Personal Property Exemption:	$0
Fixture Exemptions:	$0

- 2016 Annual taxes
- Property tax payment FAQs
- Estimate supplemental taxes

Property Boundary Description

PARK TRACT EX OF ST
LOT 1 BLK 26

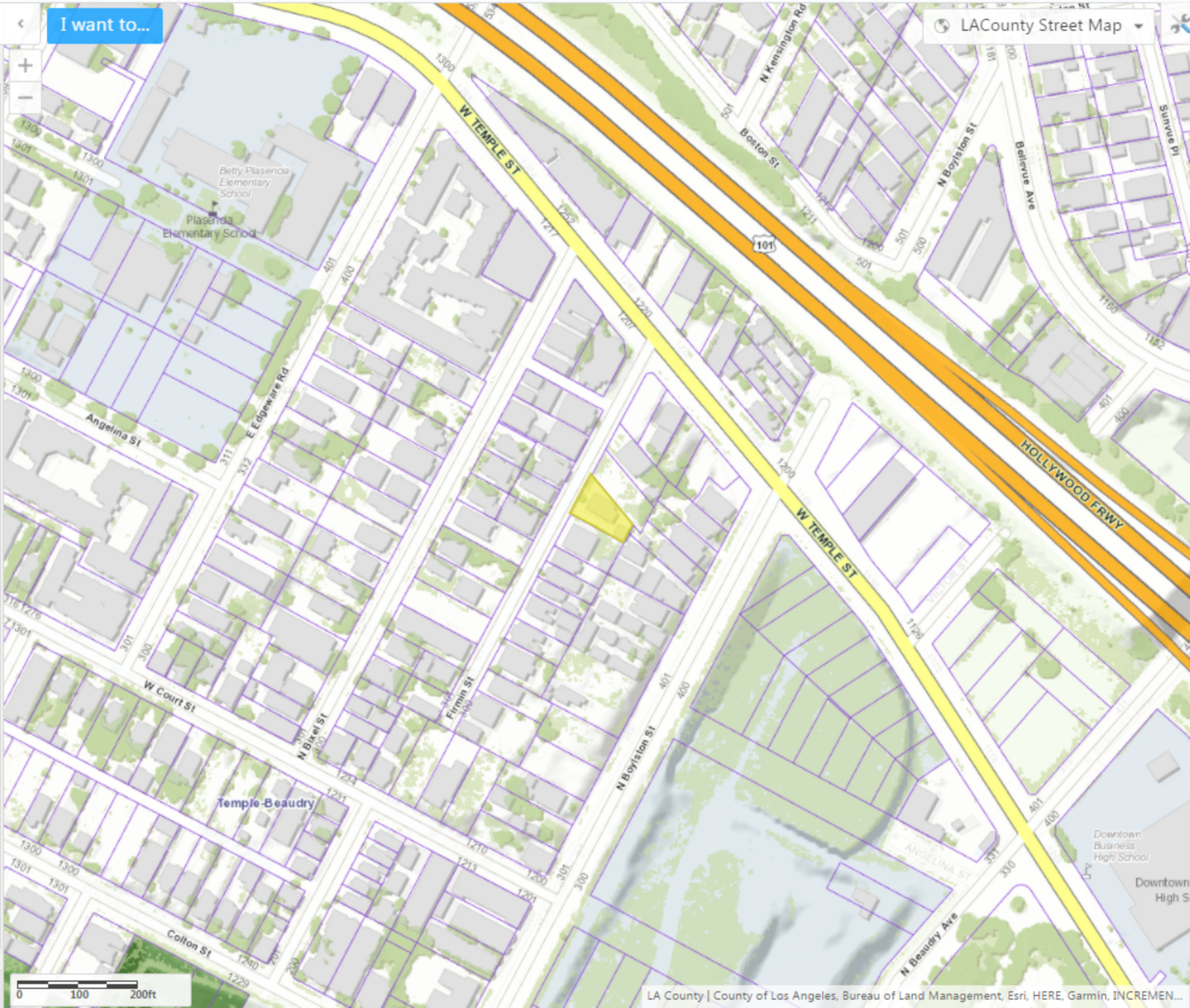
Building Description

Building Improvement 1

Square Footage:	1,326
Year Build / Effective Year Built:	1890 / 1930
Bedrooms / Bathrooms	3 / 1
Units	1

I want to...

LACounty Street Map



Parcel Details ×

- Property records are kept at the West District Office
- How frequently is this site updated? (and other FAQs)

Property Information

Assessor's ID No:	5160-022-007
Address:	426 FIRMIN ST LOS ANGELES CA 90026
Property Type:	Vacant Land
Region / Cluster:	09 / 09174
Tax Rate Area (TRA):	00067

- View Assessor Map
- View Index map

Recent Sales Information

Latest Sale Date:

Indicated Sale Price:

Search for Recent Sales

2016 Roll Values

Recording Date:	05/22/2008
Land:	$51,477
Improvements:	$0
Personal Property:	$0
Fixtures:	$0
Homeowners' Exemption:	$0
Real Estate Exemption:	$0
Personal Property Exemption:	$0
Fixture Exemptions:	$0

- 2016 Annual taxes
- Property tax payment FAQs
- Estimate supplemental taxes

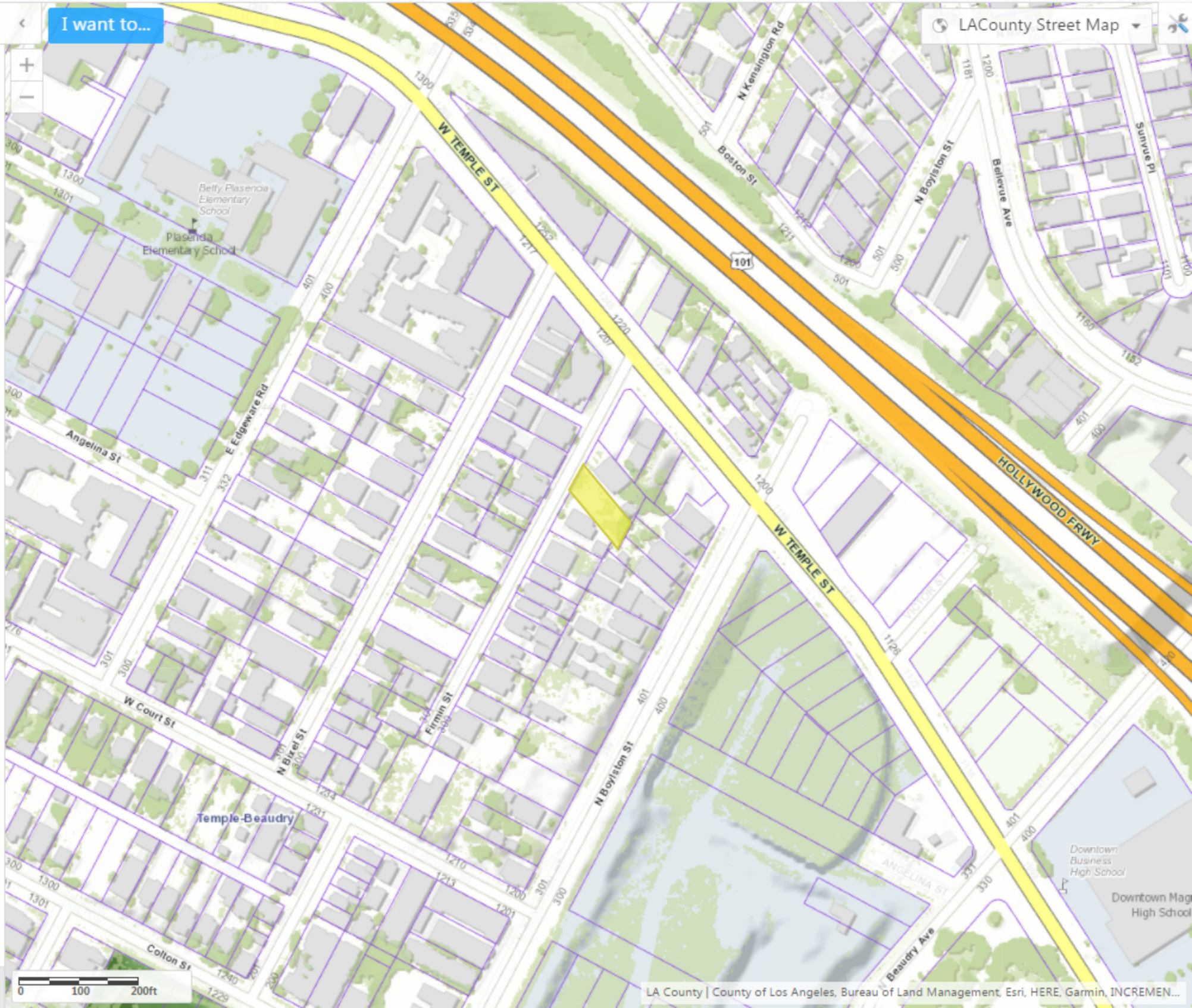
Property Boundary Description

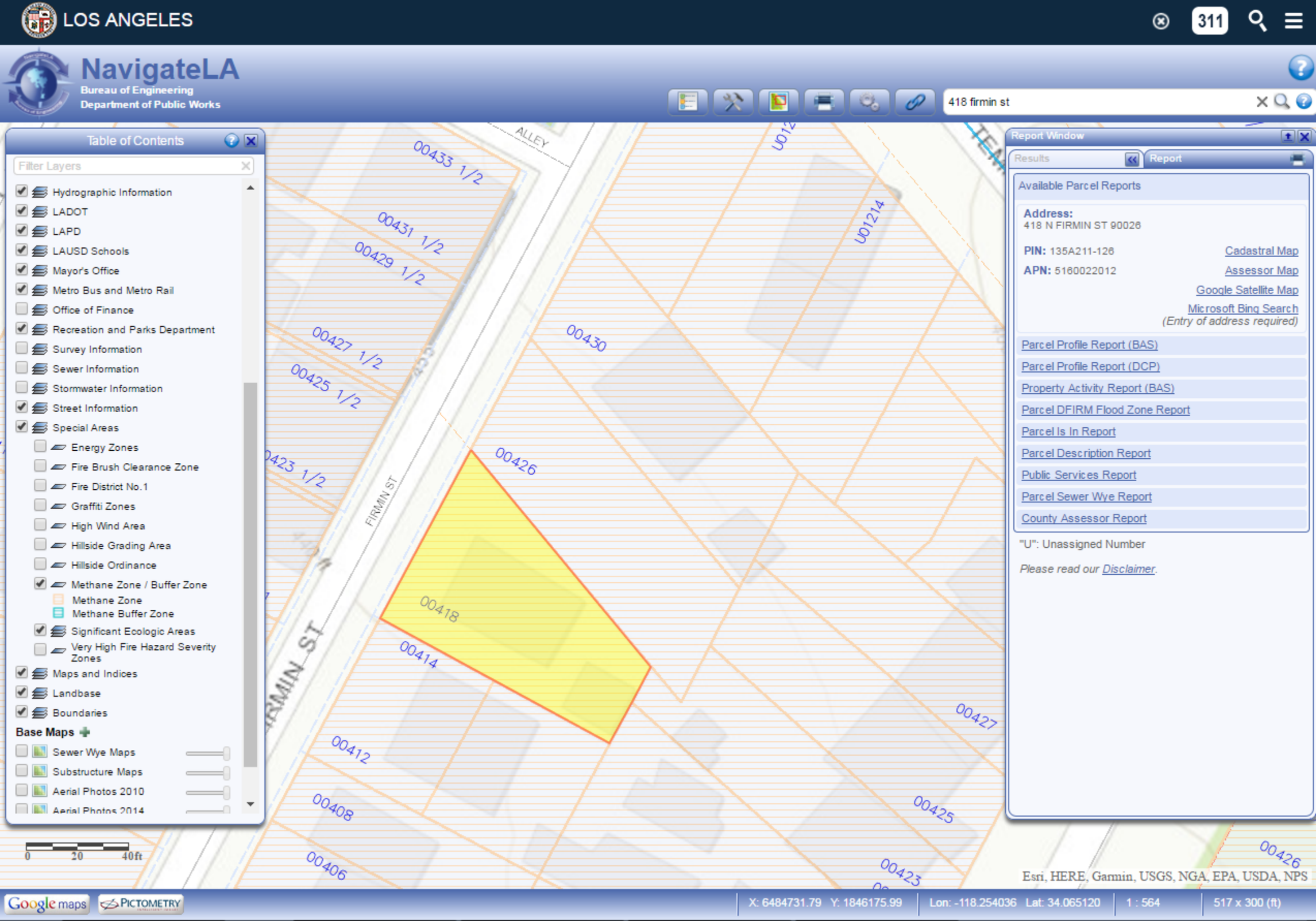
BYRAMS SUB OF PART OF LOT 1 BLK 39 OF DONATION LOTS EX OF ST
LOT 8

Building Description

I want to...

LACounty Street Map




LOS ANGELES
311
NavigateLA
Bureau of Engineering
Department of Public Works
418 firmin st
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00431 1/2
00429 1/2
00427 1/2
00425 1/2
00423 1/2
00430
00426
00418
00414
00412
00408
00406
00427
00425
00423
U01214
0 20 40ft
Report Window
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Report
Available Parcel Reports
Address:
418 N FIRMIN ST 90026
PIN: 135A211-126
APN: 5160022012
Cadastral Map
Assessor Map
Google Satellite Map
Microsoft Bing Search
(Entry of address required)
Parcel Profile Report (BAS)
Parcel Profile Report (DCP)
Property Activity Report (BAS)
Parcel DFIRM Flood Zone Report
Parcel Is In Report
Parcel Description Report
Public Services Report
Parcel Sewer Wye Report
County Assessor Report
"U": Unassigned Number
Please read our Disclaimer.
Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS
Google maps
PICTOMETRY
X: 6484731.79 Y: 1846175.99
Lon: -118.254036 Lat: 34.065120
1 : 564
517 x 300 (ft)

Parcel Details

(and other FAQs)

Property Information

Assessor's ID No:	5160-022-006
Address:	430 FIRMIN ST LOS ANGELES CA 90026
Property Type:	Single Family Residential
Region / Cluster:	09 / 09174
Tax Rate Area (TRA):	00067

- View Assessor Map
- View Index map

Recent Sales Information

Latest Sale Date:

Indicated Sale Price:

Search for Recent Sales

2016 Roll Values

Recording Date:	05/02/2014
Land:	$129,972
Improvements:	$64,263
Personal Property:	$0
Fixtures:	$0
Homeowners' Exemption:	$7,000
Real Estate Exemption:	$0
Personal Property Exemption:	$0
Fixture Exemptions:	$0

- 2016 Annual taxes
- Property tax payment FAQs
- Estimate supplemental taxes

Property Boundary Description

BYRAMS SUB OF PART OF LOT 1 BLK 39 H S OF DONATION LOTS EX OF ST
LOT 7

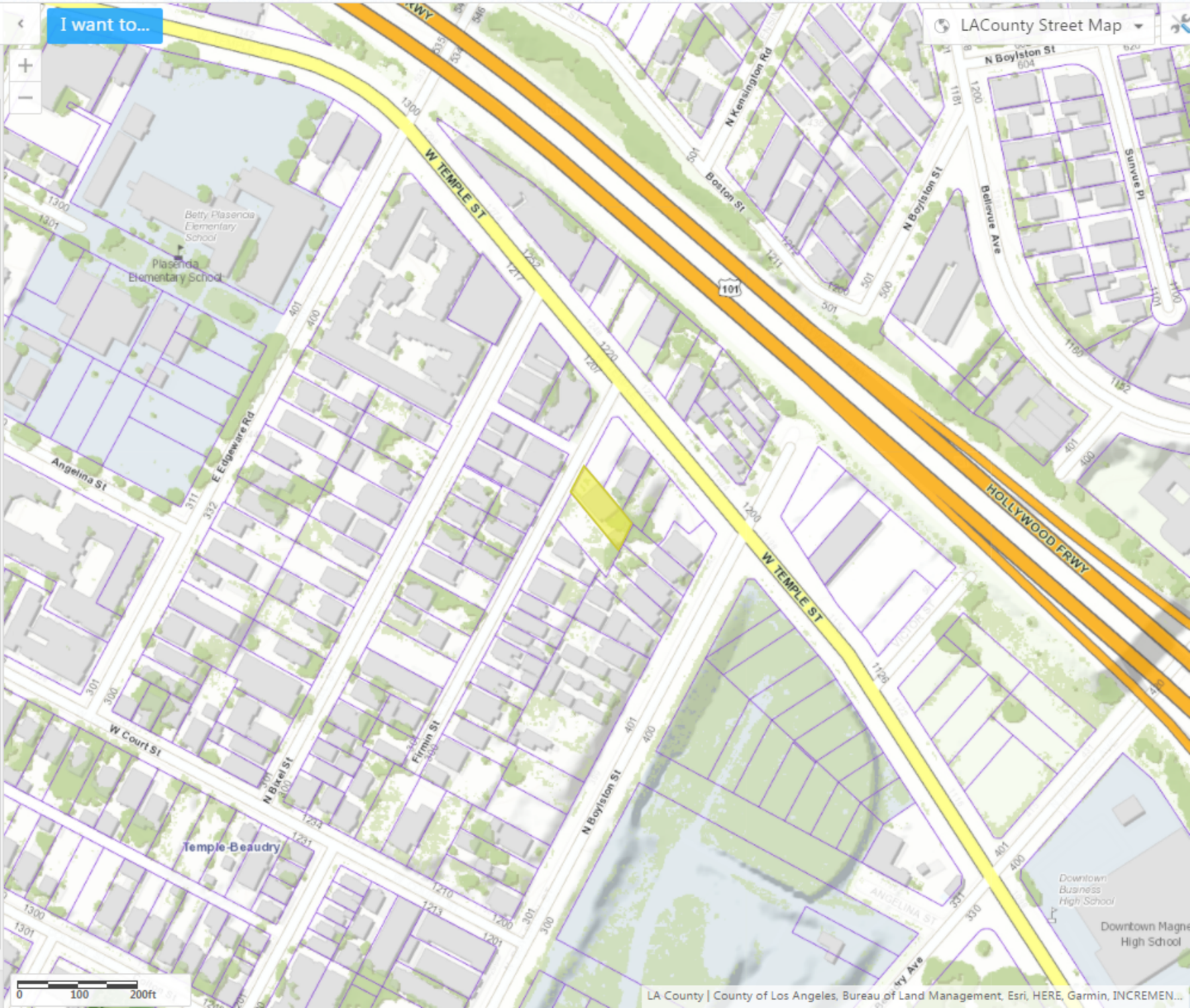
Building Description

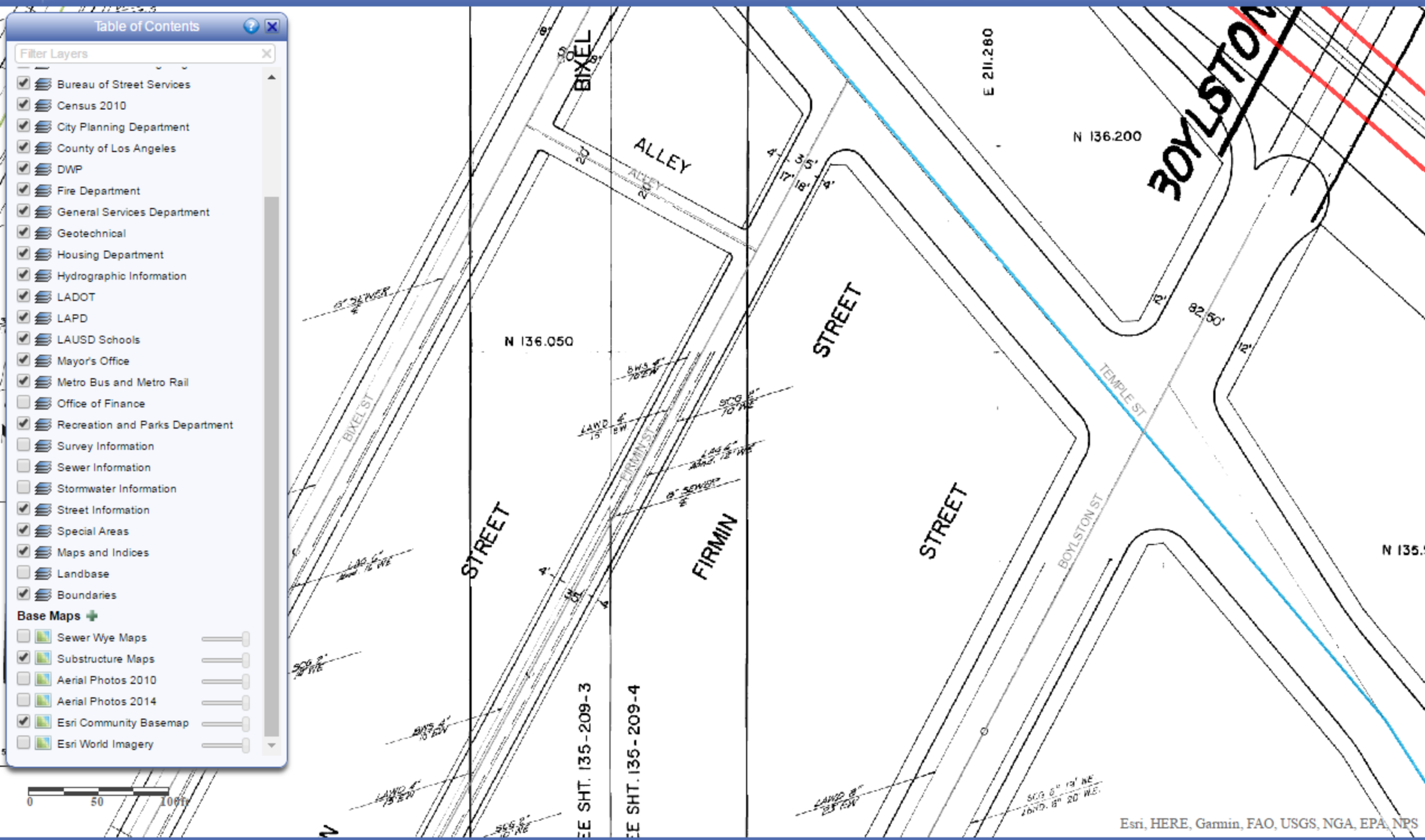
Building Improvement 1

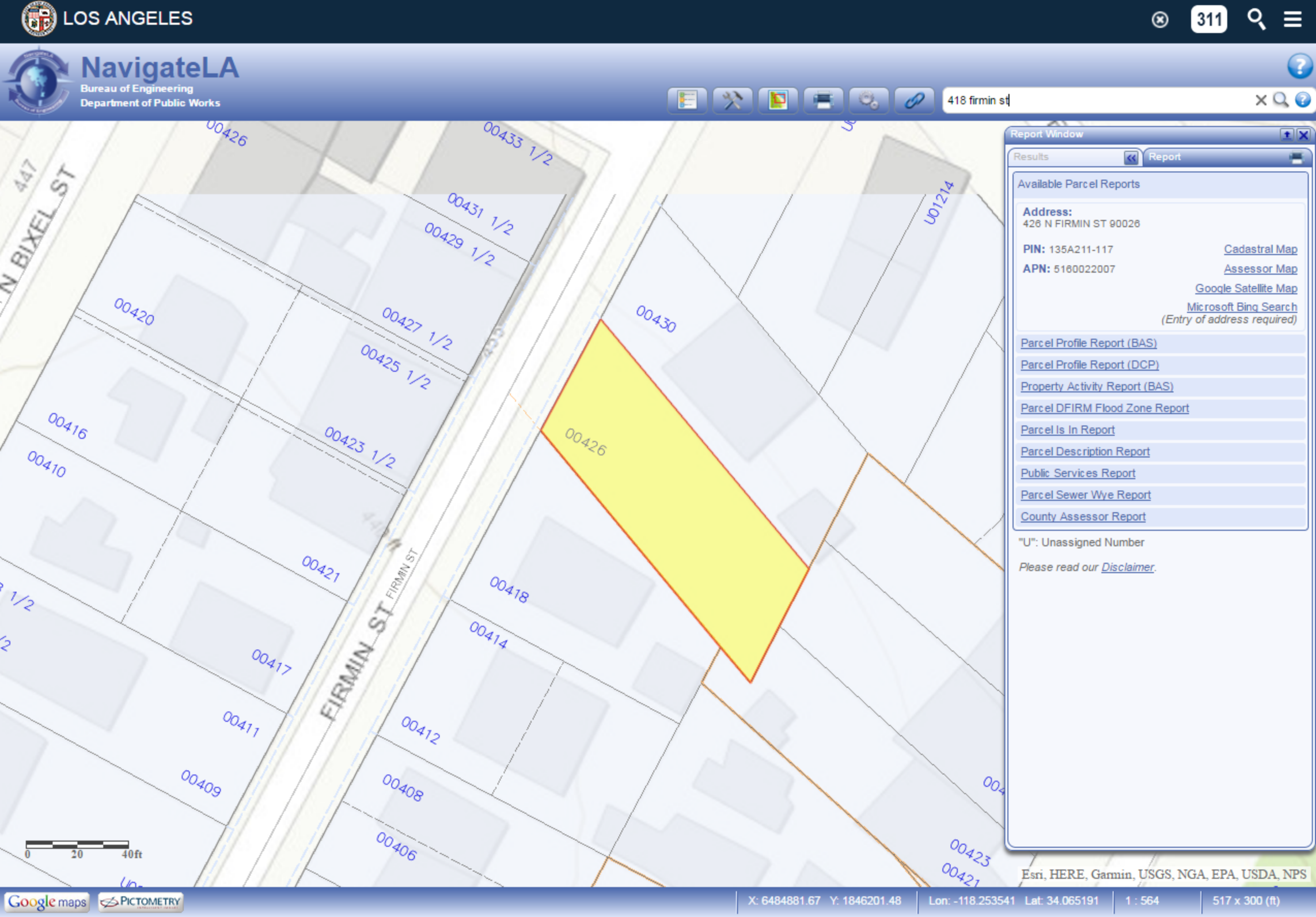
Square Footage:	1,490
Year Build / Effective Year Built:	1895 / 1925
Bedrooms / Bathrooms	2 / 1
Units	1

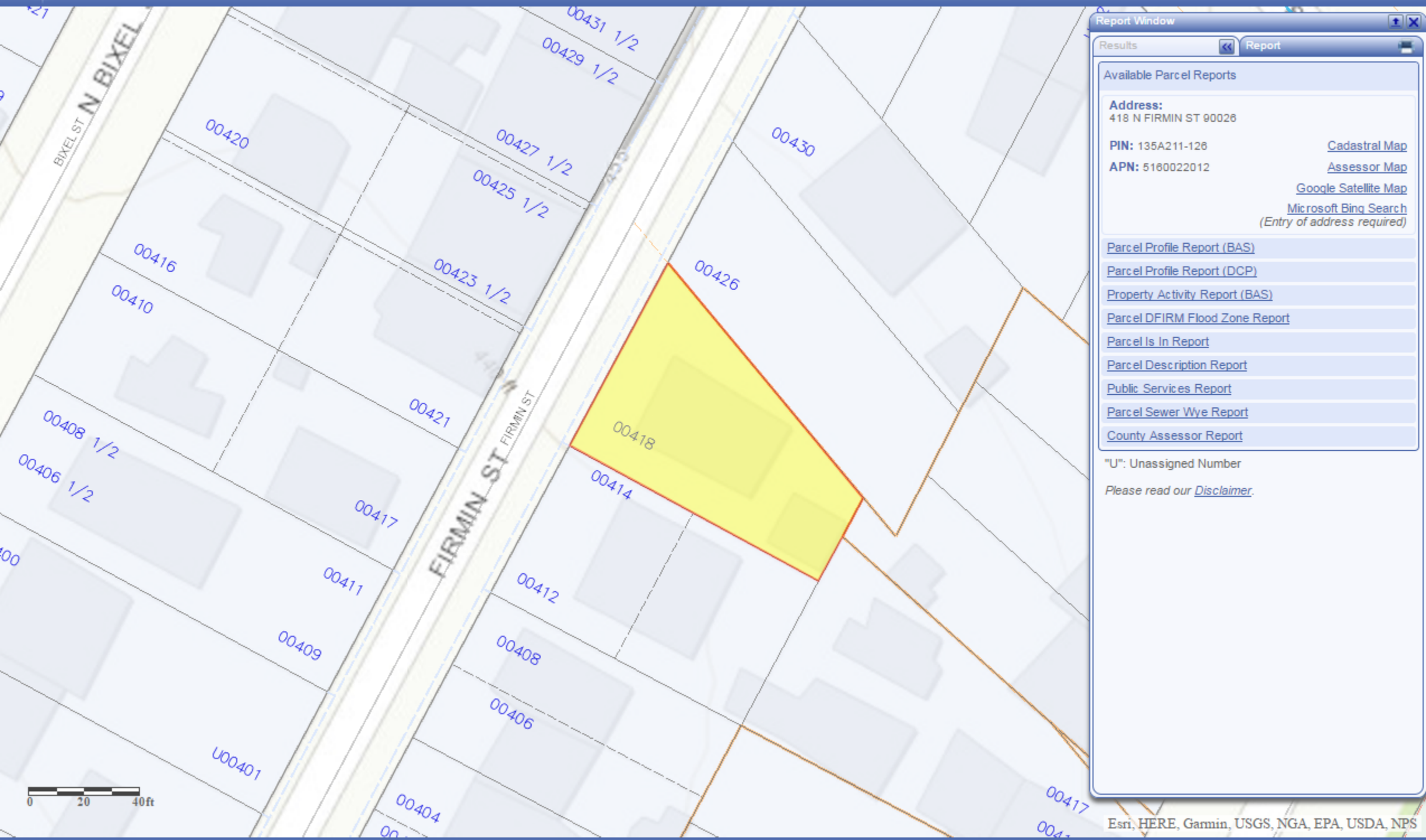
I want to...

LACounty Street Map




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ALLEY
BIXEL ST
FIRMIN ST
STREET
FIRMIN
BOYLSTON ST
TEMPLE ST
N 136.200
N 136.050
E 211.280
82.50'
EE SHT. 135-209-3
EE SHT. 135-209-4
0
50
100ft
Esri, HERE, Garmin, FAO, USGS, NGA, EPA, NPS


LOS ANGELES
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NavigateLA
Bureau of Engineering
Department of Public Works
418 firmin st
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426 N FIRMIN ST 90026
PIN: 135A211-117
APN: 5160022007
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Assessor Map
Google Satellite Map
Microsoft Bing Search
(Entry of address required)
Parcel Profile Report (BAS)
Parcel Profile Report (DCP)
Property Activity Report (BAS)
Parcel DFIRM Flood Zone Report
Parcel Is In Report
Parcel Description Report
Public Services Report
Parcel Sewer Wye Report
County Assessor Report
"U": Unassigned Number
Please read our Disclaimer.
N BIXEL ST
FIRMIN ST
00426
00430
00433 1/2
00431 1/2
00429 1/2
00427 1/2
00425 1/2
00423 1/2
00420
00416
00410
00421
00418
00414
00417
00412
00411
00409
00408
00406
00423
00421
U01214
0 20 40ft
Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS
Google maps
PICTOMETRY
X: 6484881.67 Y: 1846201.48
Lon: -118.253541 Lat: 34.065191
1 : 564
517 x 300 (ft)



Report Window

Results | Report

Available Parcel Reports

Address:
418 N FIRMIN ST 90026

PIN: 135A211-126 Cadastral Map

APN: 5160022012 Assessor Map

Google Satellite Map

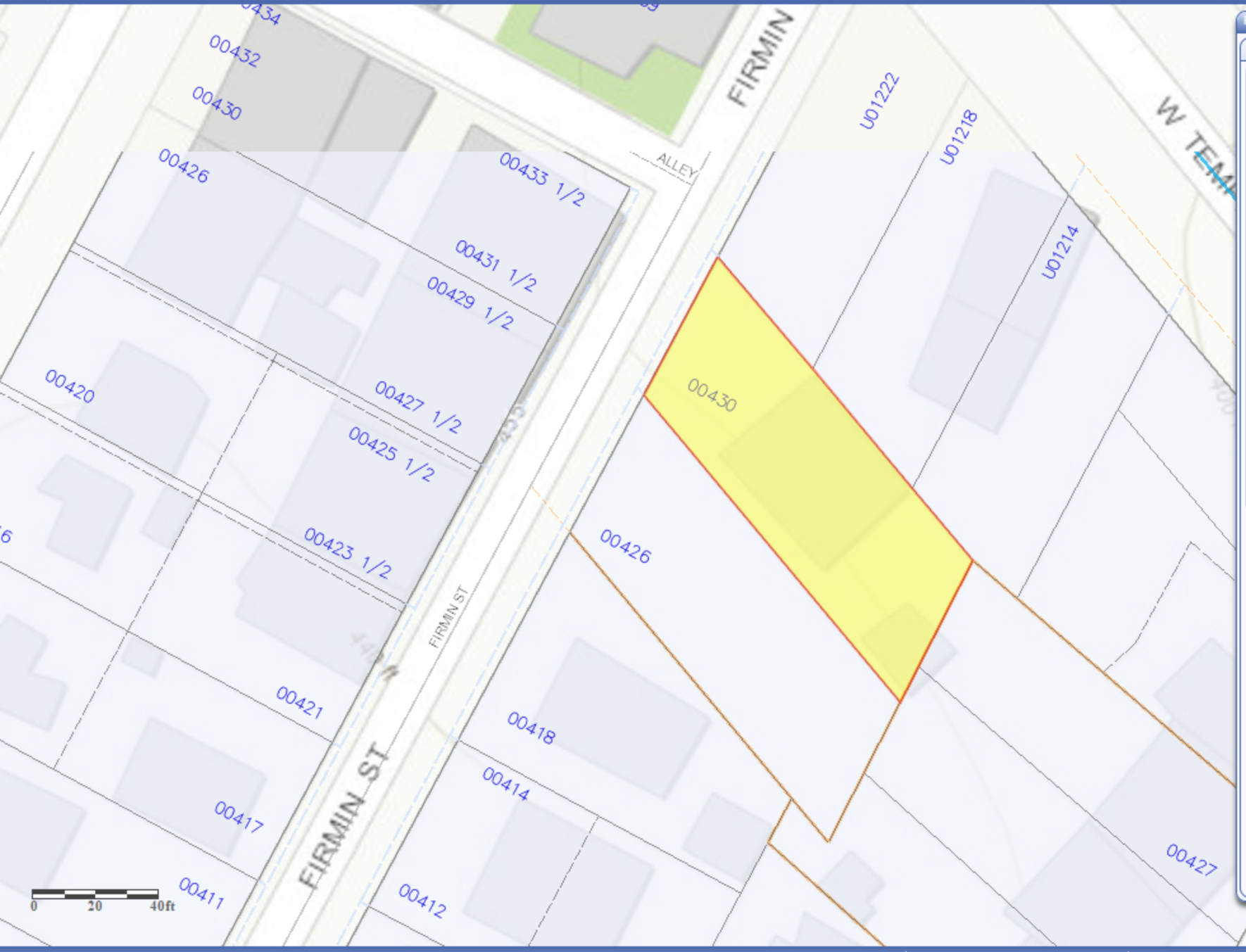
Microsoft Bing Search
(Entry of address required)

- Parcel Profile Report (BAS)
- Parcel Profile Report (DCP)
- Property Activity Report (BAS)
- Parcel DFIRM Flood Zone Report
- Parcel Is In Report
- Parcel Description Report
- Public Services Report
- Parcel Sewer Wye Report
- County Assessor Report

"U": Unassigned Number

Please read our Disclaimer.

Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS



Report Window

Results | Report

Available Parcel Reports

Address:
430 N FIRMIN ST 90026

PIN: 135A211-105 Cadastral Map
APN: 5160022006 Assessor Map
Google Satellite Map
Microsoft Bing Search
(Entry of address required)

- Parcel Profile Report (BAS)
- Parcel Profile Report (DCP)
- Property Activity Report (BAS)
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- Parcel Is In Report
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- Public Services Report
- Parcel Sewer Wye Report
- County Assessor Report

"U": Unassigned Number

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Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS

5160	22 SHEET	P. A. 35-7 & 30	TRA 67	REVISED: 12-5-64 680318	730328516 *20160301080020001-09*				SEARCH NO		OFFICE OF THE ASSESSOR COUNTY OF LOS ANGELES COPYRIGHT © 2002

2017

MAPPING AND GIS SERVICES
SCALE 1" = 80'

PG 23

PG 25

TRACT NO 1644
MB 20-82-83

PG 26

PG 21

PG 18

ST 80

TEMPLE

CF 1488

BOYLSTON

ANGELINA ST

MR 6-391

PARK

BEAUVOIR

TRACT

HANCOCK SURVEY

SUB OF " LOT 8 " BLK 39

BYRAM'S SUB OF A PART OF LOT 1
BLK 39 OF HANCOCK'S SURVEY
MR 6-391

FIRMIN

COURT

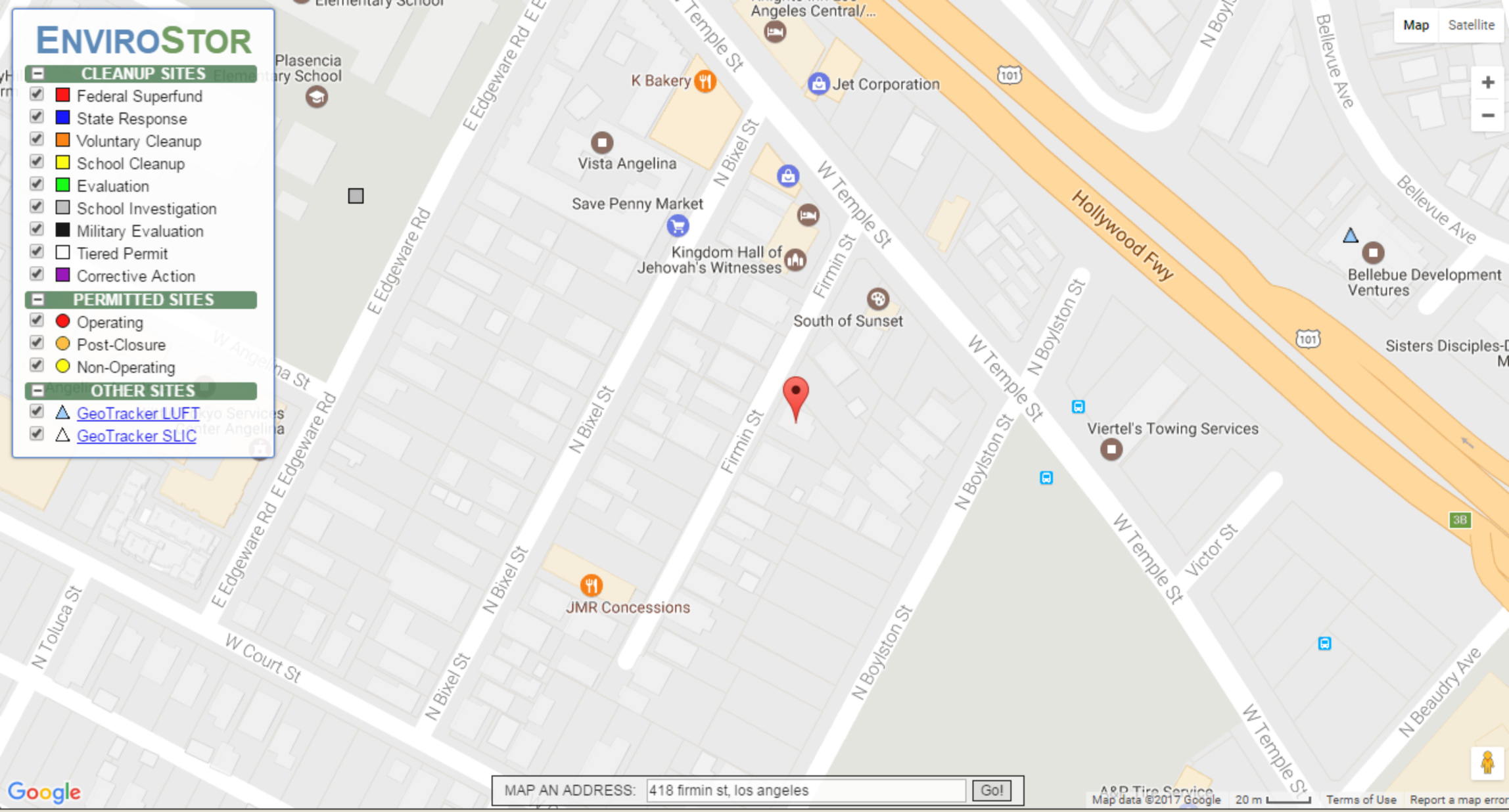
BIXEL ST

ST 82.50

ST 50

ST 61.50

Date Printed: 2/24/2016 9:51:10 AM
Date Saved: 2/24/2016 9:50:53 AM



SHOW SITES WITHIN 1000 FEET OF THE FOLLOWING ADDRESS: Go

SITES CURRENTLY VISIBLE ON MAP — 1 SITES LISTED — EXPORT THIS LIST TO EXCEL

PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY
PLASENCIA ELEMENTARY SCHOOL	INACTIVE - NEEDS EVALUATION	SCHOOL INVESTIGATION	1321 CORTEZ STREET	LOS ANGELES

Division of Oil, Gas & Geothermal Resources Well Finder

Find By Location

Find My Current Location

or

Street: 418 Firmin St

City: Los Angeles

Zip: Find

Display a 500 foot buffer

Buffer radius is limited to 10 mi (52800ft).

Find By API

Find By Lat, Long

Find By PLSS

Find By Oil/Gas Field

Data (Layers):

- Notices & Permits
- DOGGR Wells

Label: API# Well# Detailed

EPA Wells for Aquifer Exemption Review
- Enhanced Oil Recovery Wells
- Disposal Wells

- TR26 Onshore Seeps
- Oil/Gas Fields
- California Geologic Map
- DOGGR Districts
- Public Land Survey System



GEOTRACKER

418 firmin st, los angeles

Map Address

Map | Satellite

Sites and Facilities

Cleanup Sites

- [x] LUST Cleanup Sites
- [x] Cleanup Program Sites
- [x] Military Cleanup Sites
- [ ] DTSC Cleanup Sites

Permitted Facilities

- [x] Waste Discharge Requirements (WDR) Sites
- [ ] Permitted USTs - INFO
- [x] DTSC Hazardous Waste Sites
- [ ] Land Disposal Sites
- [x] Irrigated Lands Regulatory Program Sites
- [ ] Oil / Gas Sites

Other Sites

- [ ] Project Sites
- [ ] Non-Case Information Sites
- [ ] Sampling Points - Public
- [ ] Field Points

☒ SIGNIFIES A CLOSED SITE

Tools

Map Coverages

TAKE A TOUR | VIEW ON GAMA

Hollywood Fwy
Sunset Blvd
Apartments
Bellevue Ave
Iglesia Evangelica Latina
Friends Car Wash
Marion Ave
Everett St
Marview Ave
White Knoll Dr
The Elysian
WINSOME
W Temple St
Douglas St
E Edgeware Rd
E Kensington Rd
Boston St
N Boylston St
Sunvue Pl
Alpine St
N Beaudry Ave
The Park's Finest BBQ
Plasencia Elementary School
Bahia Nightclub
Paradise
N Bixel St
W Angelina St
Victor St
CVS
Downtown Magnets High School
The Orsini
Bartlett St
N Toluca St
W Court St
Colton St
Dawson St
Bob Baker Marionette Theatre
Vista Hermosa Natural Park, Mountains Recreation...
W 1st St
Belmont Station Apartments
LA Downtown News
Mignonette St
Victor St
3B
3A
101
110

Google

Map data ©2017 Google 50 m Terms of Use Report a map error

SITES CURRENTLY VISIBLE ON MAP

ZIMAS

Public

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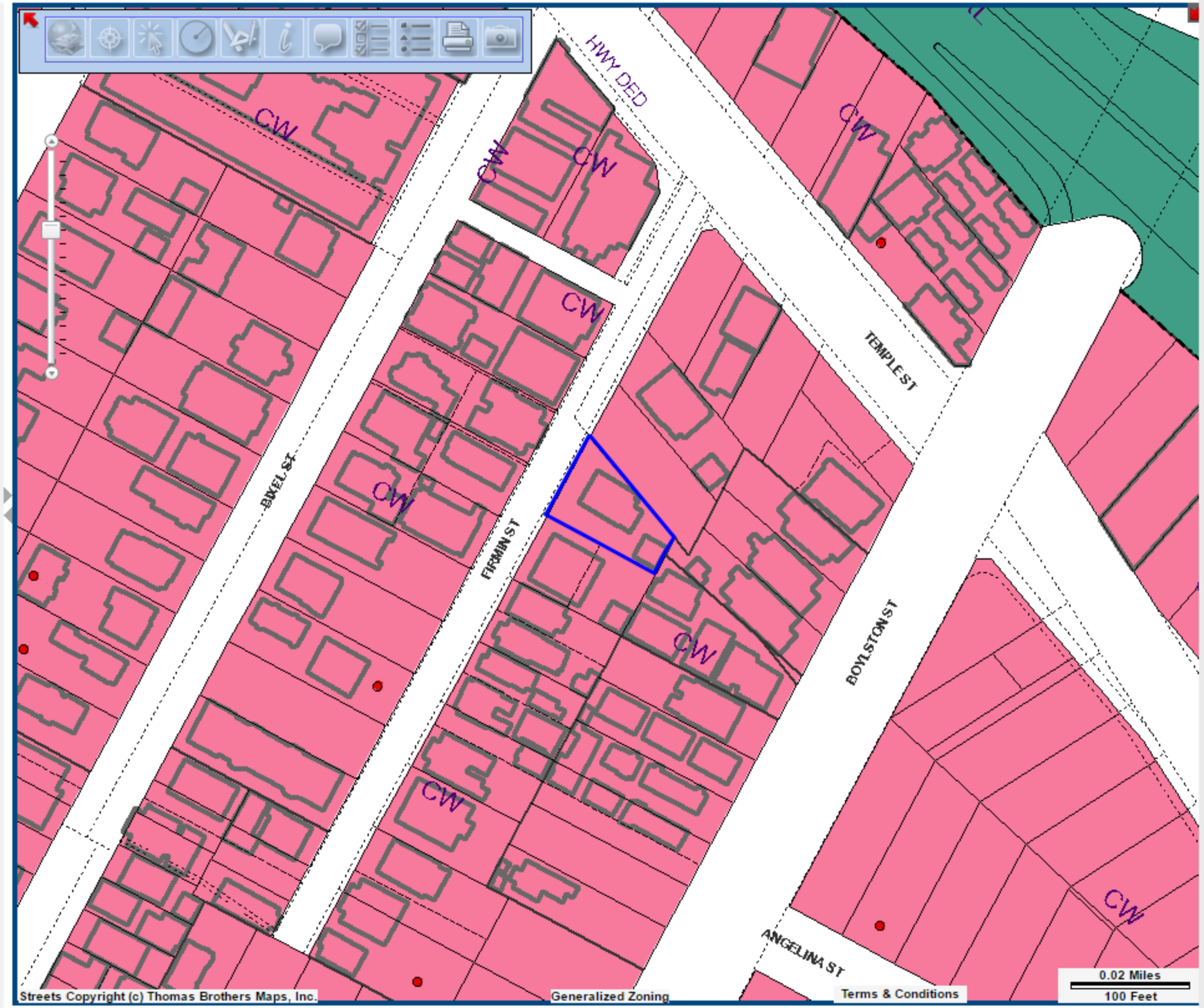
418 N FIRMIN ST

Font: A A A +/-

Address/Legal

Site Address	418 N FIRMIN ST
ZIP Code	90026
PIN Number	135A211 126
Lot/Parcel Area (Calculated)	5,615.7 (sq ft)
Thomas Brothers Grid	PAGE 634 - GRID E2
Assessor Parcel No. (APN)	5160022012
Tract	PARK TRACT
Map Reference	M R 7-26/27
Block	26
Lot	FR 1
Arb (Lot Cut Reference)	None
Map Sheet	135A211

- Jurisdictional
- Planning and Zoning
- Assessor
- Case Numbers
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- Additional
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- Economic Development Areas
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426 N FIRMIN ST

Font: A A A +/-

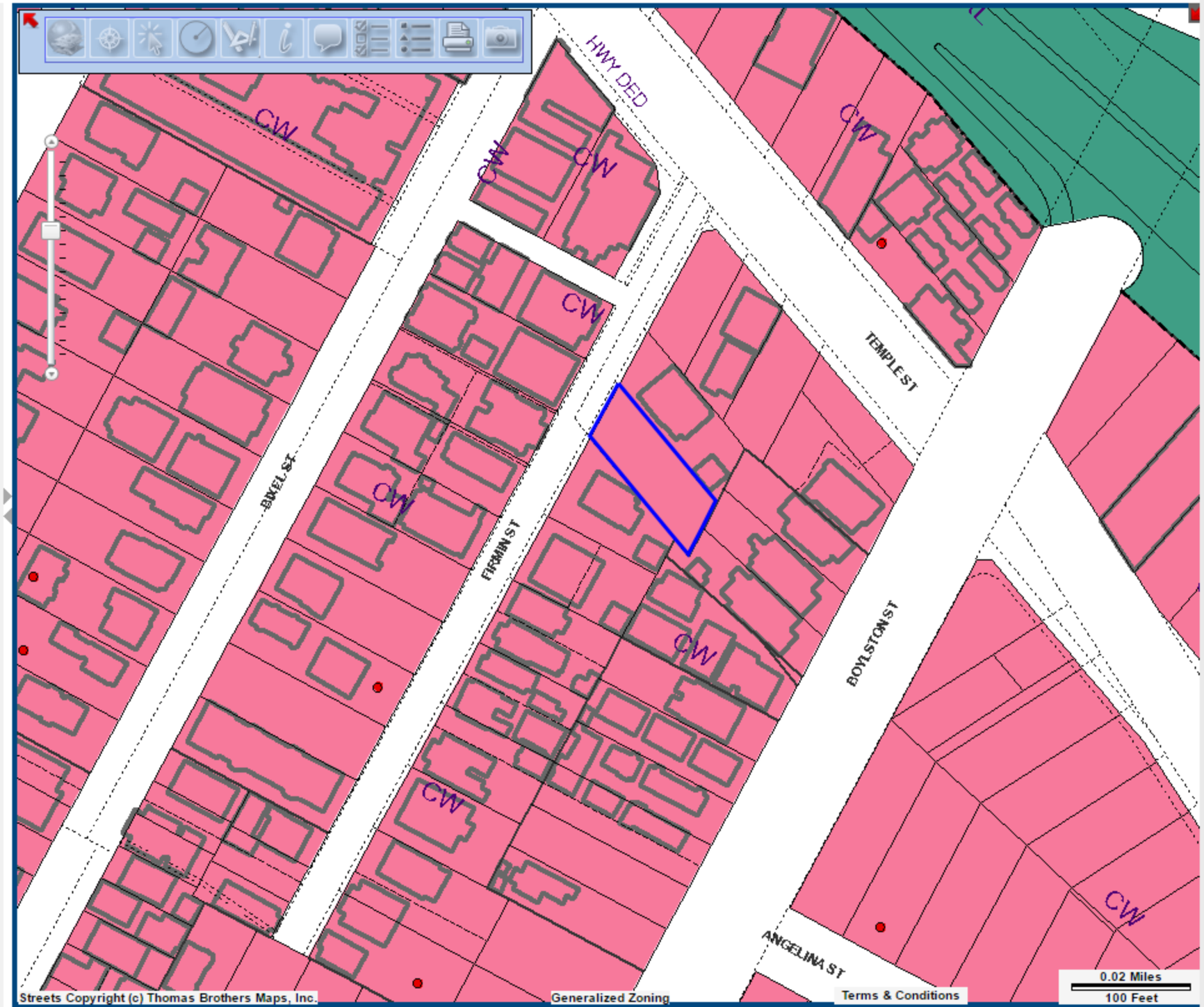
Address/Legal

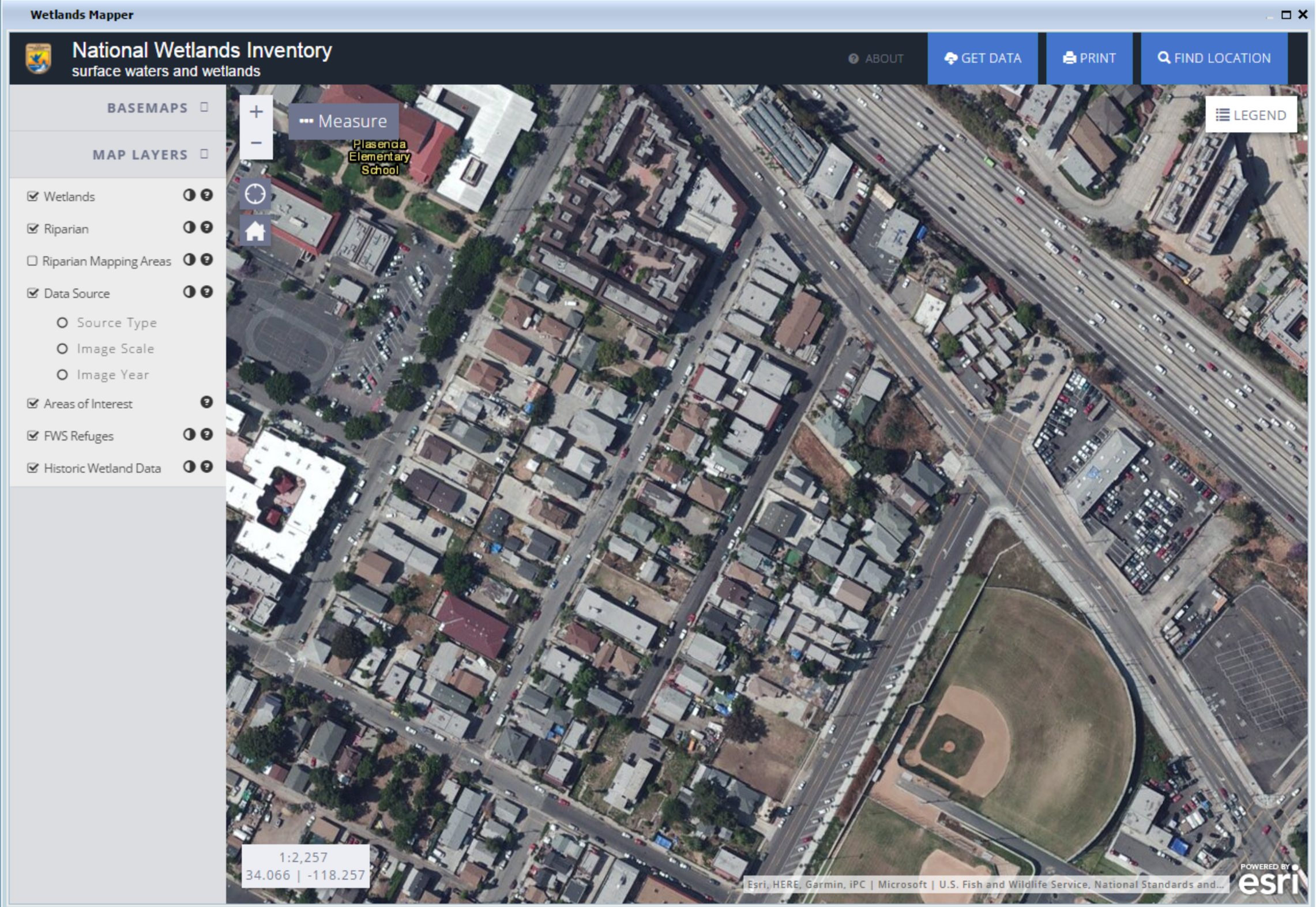
Site Address	426 N FIRMIN ST
ZIP Code	90026
PIN Number	135A211 117
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Thomas Brothers Grid	PAGE 634 - GRID E2
Assessor Parcel No. (APN)	5160022007
Tract	BYRAM'S SUBDIVISION OF A PART OF LOT 1, BLOCK 39 OF HANCOCK'S SURVEY
Map Reference	M R 6-391
Block	None
Lot	FR 8
Arb (Lot Cut Reference)	None
Map Sheet	135A211

- Jurisdictional
- Planning and Zoning
- Assessor
- Case Numbers
- Citywide/Code Amendment Cases
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- Seismic Hazards
- Economic Development Areas
- Public Safety

Select Parcels

Show total area for selected parcels




Wetlands Mapper
National Wetlands Inventory
surface waters and wetlands
ABOUT
GET DATA
PRINT
FIND LOCATION
BASEMAPS
MAP LAYERS
Wetlands
Riparian
Riparian Mapping Areas
Data Source
Source Type
Image Scale
Image Year
Areas of Interest
FWS Refuges
Historic Wetland Data
Measure
Plasencia Elementary School
LEGEND
1:2,257
34.066 | -118.257
Esri, HERE, Garmin, iPC | Microsoft | U.S. Fish and Wildlife Service, National Standards and...
POWERED BY esri

ZIMAS

Public

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430 N FIRMIN ST

Font: A A A +/-

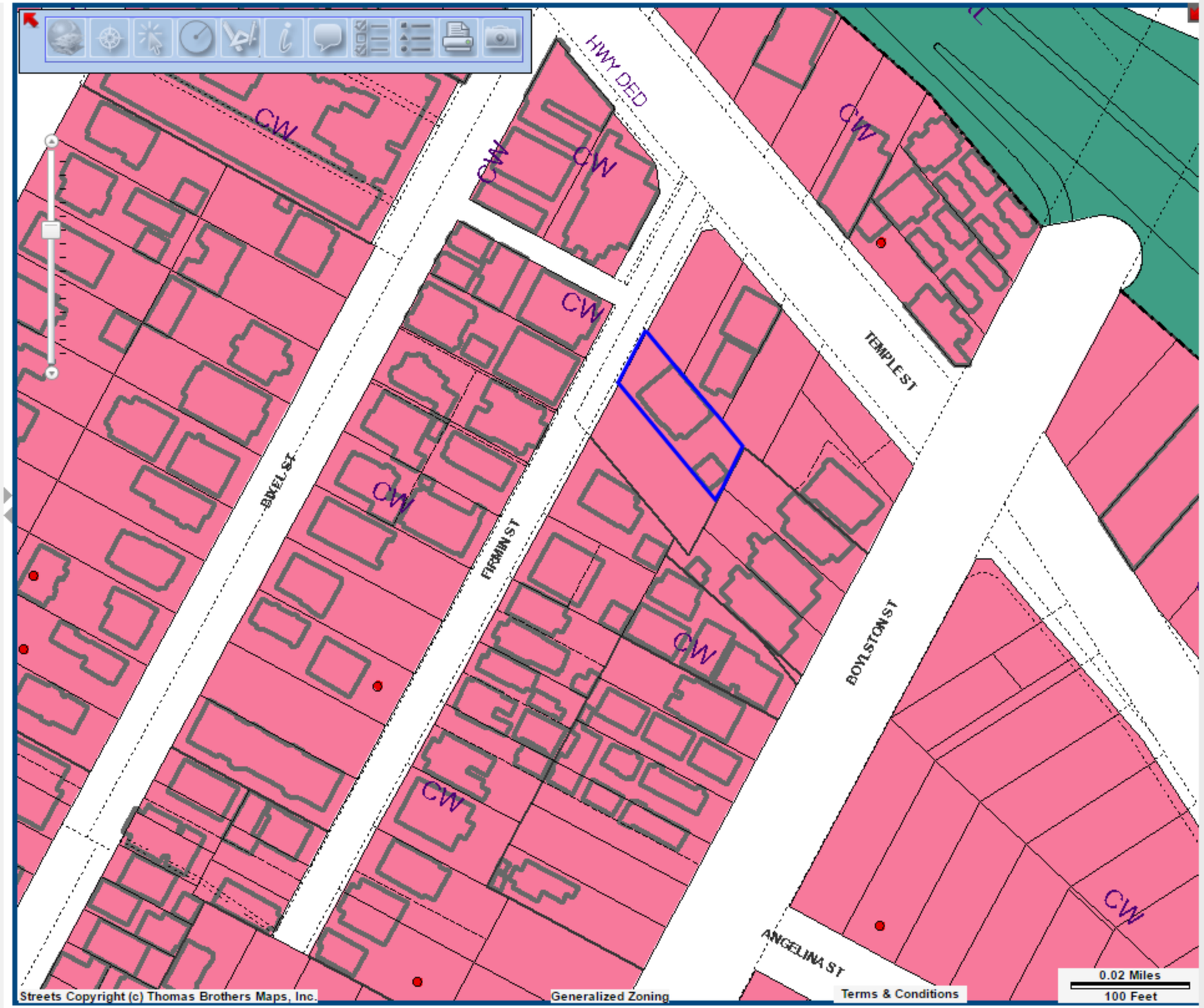
Address/Legal

Site Address	430 N FIRMIN ST
ZIP Code	90026
PIN Number	135A211 105
Lot/Parcel Area (Calculated)	5,930.1 (sq ft)
Thomas Brothers Grid	PAGE 634 - GRID E2
Assessor Parcel No. (APN)	5160022006
Tract	BYRAM'S SUBDIVISION OF A PART OF LOT 1, BLOCK 39 OF HANCOCK'S SURVEY
Map Reference	M R 6-391
Block	None
Lot	FR 7
Arb (Lot Cut Reference)	None
Map Sheet	135A211

- Jurisdictional
- Planning and Zoning
- Assessor
- Case Numbers
- Citywide/Code Amendment Cases
- Additional
- Seismic Hazards
- Economic Development Areas
- Public Safety

Select Parcels

Show total area for selected parcels



CALIFORNIA - EPA Map of Radon Zones

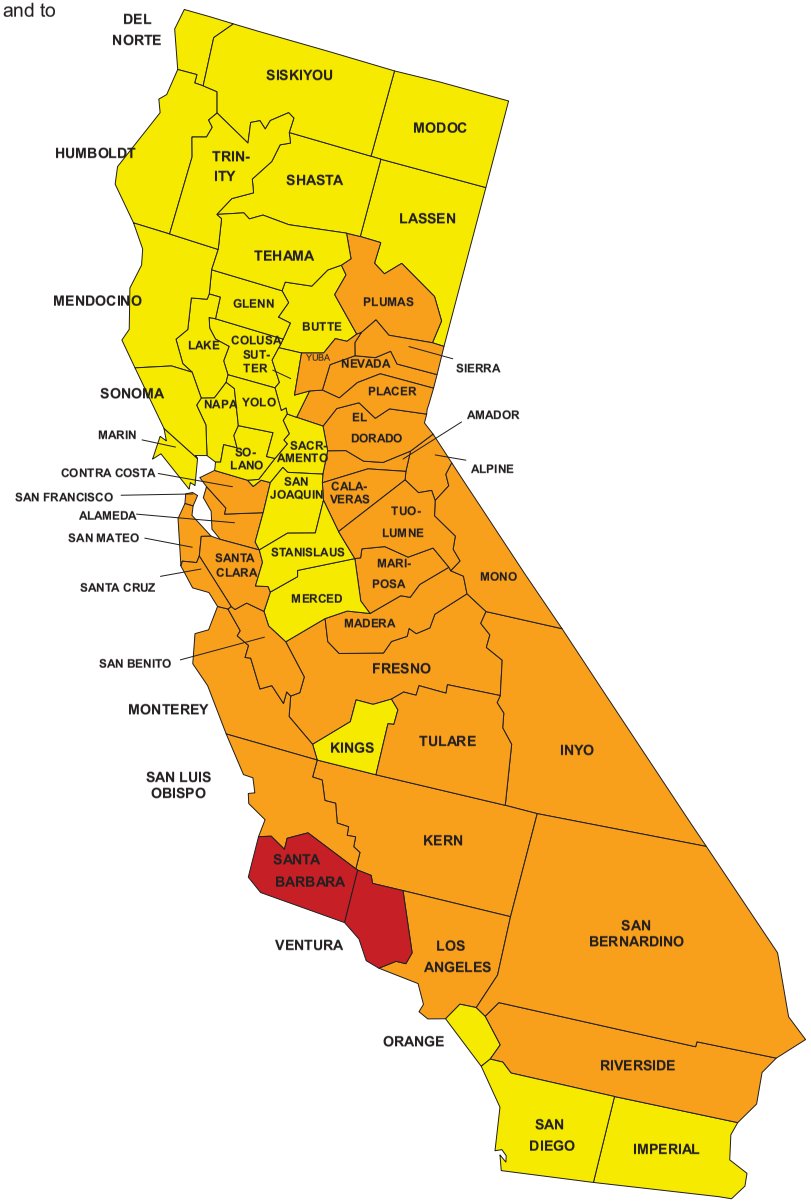
http://www.epa.gov/radon/zonemap.html

The purpose of this map is to assist National, State and local organizations to target their resources and to implement radon-resistant building codes.

This map is not intended to determine if a home in a given zone should be tested for radon. Homes with elevated levels of radon have been found in all three zones.

All homes should be tested, regardless of zone designation.

IMPORTANT: Consult the publication entitled "Preliminary Geologic Radon Potential Assessment of California" (USGS Open-file Report 93-292-I) before using this map. See http://energy.cr.usgs.gov/radon/grpinfo.html This document contains information on radon potential variations within counties. EPA also recommends that this map be supplemented with any available local data in order to further understand and predict the radon potential of a specific area.



Zone 1 Zone 2 Zone 3

Johnston, James

From: Johnston, James
Sent: Monday, May 22, 2017 8:09 AM
To: 'RB4-PublicRecords@waterboards.ca.gov'
Subject: Public Records Request

Hello,

This firm is performing a Phase I Environmental Site Assessment on a property located at the following addresses:

418, 426, 430 Firmin St., Los Angeles, CA 90026

We are requesting any records in relation to the subject property. Please feel free to contact me with any questions or concerns related to this request at 310-854-6300.

Thank you for your time and consideration in this matter.

Regards,

James Kyle Johnston
Environmental Specialist

EFI Global Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

T 310 854 6300
TF 888 705 6300
F 310 854 0199
M 310 256 0179
E James_Johnston@efiglobal.com

www.efiglobal.com
Assign a Project 24/7: efiglobal.com/Assign-a-Project

CSLB License #: 885902 – A, B, HAZ, ASB



Johnston, James

From: Johnston, James
Sent: Monday, May 22, 2017 8:16 AM
To: 'dogdist1@conservation.ca.gov'
Cc: 'toinye.williams@conservation.ca.gov'
Subject: Well Records Request

This firm is requesting records for the following wells.

API: 03723873
Well No: 1-1
Operator: H. Rogalske [03708]

API: 03725669
Well No: 3
Operator: H. Rogalske [03708]

API: 03725652
Well No: 1
Operator: H. H. Harrison [09581]

API: 03725529
Well No: 8
Operator: Chas. V. Hall [09541]

Regards,

James Kyle Johnston
Environmental Specialist

EFI Global Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

T 310 854 6300
TF 888 705 6300
F 310 854 0199
M 310 256 0179
E James_Johnston@efiglobal.com

www.efiglobal.com
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CSLB License #: 885902 – A, B, HAZ, ASB

EFI Global
Engineering, Fire & Environmental Services

EFI Global

Engineering, Fire & Environmental Services

To:	Department of Toxic Substances Control, Chatsworth Regional Office Attn: Regional Records Coordinator	**Fax:**	(818) 717-6526 **Phone:** (818) 717-6521
From:	James Johnston	**Date:**	5/22/2017
Re:	Records Request	**Pages:**	1
CC:			

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** **X Please Reply** ☐ **For Information**

Regional Records Coordinator,

This firm is requesting a review of all files/reports both current and historical for the property located at:

418, 426, 430 Firmin St., Los Angeles, CA 90026

Please feel free to contact me with any questions or concerns.

Sincerely,
James Johnston

James_Johnston@EFIGLOBAL.com

EFI Global, Inc.
5261 West Imperial Highway
Los Angeles, CA 90045
P: 310-854-6300
F: 310-854-0199

CONFIDENTIAL

Print
- Job Status
- Job History

Copy
- Job History

TX
- Job History

RX
- Job History

Status Monitor/Cancel: TX: Job History

TX: Job History

Last Updated:05/22/2017 08:18:46 AM

TX Job History List

Job No.	Result	Start Time	Duration	Job Type	Destination	User Name	Originals	Original Pages	TX Pages
4147	OK	05/22/2017 08:16:58 AM	00'42	Fax	18187176526	jjohnston	1	1	1
4146	OK	05/22/2017 08:13:12 AM	00'58	Fax	13233426111	jjohnston	1	1	1

EFI Global

Engineering, Fire & Environmental Services

To:	Cecilia Dominguez	**Fax:**	323-342-6111
	Industrial Waste Management Division, Bureau of Sanitation, City of Los Angeles	**Phone:**	323-342-6061
From:	James Johnston	**Fax:**	310-854-0199
Re:	Sanitation Records	**Date**:	5/22/2017
CC:		**Pages (incl. cover):**	1

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** X **Please Reply** ☐ **For Information**

In preparation for a Phase I Environmental Site Assessment, I would like to request available records pertaining to industrial wastewater discharge, clarifiers, storm water/waste water, and inspection records for the following addresses:

418, 426, 430 Firmin St., Los Angeles, CA 90026

If permits are found for the aforementioned property, please fax the information to us, otherwise standard mailing is sufficient. We understand that a fax fee will be accrued for faxing the information.

Thank you.

Sincerely,
James Johnston

EFI Global, Inc.
5261 West Imperial Highway
Los Angeles, CA 90045
P: 310-854-6300
F: 310-854-0199

CONFIDENTIAL

Johnston, James

From: Johnston, James
Sent: Monday, May 22, 2017 8:09 AM
To: 'phicor@ph.lacounty.gov'
Subject: Public Records Request

Custodian of Records,

This firm is performing a Phase 1 Environmental Site Assessment on properties located at the following address:

418, 426, 430 Firmin St., Los Angeles, CA 90026

We are requesting any information from your department pertaining to any spills or releases of hazardous materials (HAZMAT) or substances or petroleum products that have ever been located on the properties. Please feel free to contact me with any questions or concerns at 310-854-6300. Thank you for your assistance with this information.

Regards,

James Kyle Johnston
Environmental Specialist

EFI Global Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

T 310 854 6300
TF 888 705 6300
F 310 854 0199
M 310 256 0179
E James_Johnston@efiglobal.com

www.efiglobal.com
Assign a Project 24/7: efiglobal.com/Assign-a-Project

CSLB License #: 885902 – A, B, HAZ, ASB

EFI Global
Engineering, Fire & Environmental Services

Johnston, James

From: Johnston, James
Sent: Monday, May 22, 2017 8:06 AM
To: 'lafdarson@lacity.org'
Subject: Public Records Request

Hello,

This firm is performing a Phase I Environmental Site Assessment on a property located at the following addresses:

418, 426, 430 Firmin St., Los Angeles, CA 90026

We are requesting any records in relation to the subject property. Please feel free to contact me with any questions or concerns related to this request at 310-854-6300.

Thank you for your time and consideration in this matter.

Regards,

James Kyle Johnston
Environmental Specialist

EFI Global Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

T 310 854 6300
TF 888 705 6300
F 310 854 0199
M 310 256 0179
E James_Johnston@efiglobal.com

www.efiglobal.com
Assign a Project 24/7: efiglobal.com/Assign-a-Project

CSLB License #: 885902 – A, B, HAZ, ASB

EFI Global
Engineering, Fire & Environmental Services

Johnston, James

From: Johnston, James
Sent: Monday, May 22, 2017 8:04 AM
To: 'lafd.usttestnotify@lacity.org'
Subject: Public Records Request
Attachments: LAFD UST RECORDS REQUEST FORM.pdf

Hello,

This firm is requesting a review of all current and historical files/reports for the addresses in the attached forms.

Please feel free to contact me with any questions or concerns at **310-854-6300**.

Thank you very much!

Regards,

James Kyle Johnston
Environmental Specialist

EFI Global Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

T 310 854 6300
TF 888 705 6300
F 310 854 0199
M 310 256 0179
E James_Johnston@efiglobal.com

www.efiglobal.com
Assign a Project 24/7: efiglobal.com/Assign-a-Project

CSLB License #: 885902 – A, B, HAZ, ASB



LOS ANGELES FIRE DEPARTMENT
UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS
ADDRESS: 200 NORTH MAIN ST., 17TH FLR. RM. 1700
NEW OFFICE# - 213-978-3700 NEW EMAIL lafd.usttestnotify@lacity.org

PLEASE GIVE US 7 TO 10 BUSINESS DAYS TO HONOR YOUR REQUEST.

ONE ADDRESS ONLY - PER SHEET

↓ COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED ↓

PHONE NO: (310) 854-6300 EMAIL: James_Johnston@efiglobal.com

NAME OF REQUESTER (PLEASE PRINT): James Johnston

REPRESENTING (COMPANY NAME): EFI Global

SIGNATURE: _____ DATE: 5 / 22 / 2017

DRIVER LIC NO: _____ EXP: _____

ADDRESS FOR WHICH RECORDS ARE REQUESTED: _____

418, 426, 430 Firmin St., Los Angeles, CA 90026

REASON FOR REQUEST: PHASE I ENVIRONMENTAL SITE ASSESSMENT

NO COPY SERVICES ALLOWED

FOR OFFICE USE ONLY:

☐ REVIEW ONLY (NO COPIES)

☐ REQUEST COPIES

NUMBER OF PAGES: _____

X .10 ¢

= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING & ACCOUNTS RECEIVABLE
16TH FL, Rm. 1620, 200 N. MAIN (REV CODE #3887)

Requestor Information

Requestor Name
James Johnston

Requestor Company
EFI Global

Requestor Email*
JAMES_JOHNSTON@EFIGLOBAL.COM

Requestor Phone
(310)854-6300

Requestor Address

Requestor City

Requestor State

Requestor Zip Code

Type of Requested Record(s).

REQUESTED RECORDS. Please be as specific as possible in describing the records you are seeking. The more specific you are, the easier it will be to determine if such records exist in District files. Please contact the Public Records Unit if you need assistance in identifying District records.

Note: Permits to Operate, Equipment Lists, Notices of Violation, Notices to Comply, and Emissions Summaries are available through SCAQMD's FIND page at http://www3.aqmd.gov/webappl/fim/prog/search.aspx (you need to copy and paste this link into your browser).

Please Enter a description of the records you are requesting here:*
We are requesting any information from your departments pertaining to air emissions, including permits to operate, equipment lists and notices of violation.

Time Period of Documents Requested

Start Date*
1/1/1916

End Date*
5/22/2017

Requested Facility or Site Information (if applicable)

Note: You may only include one Facility or Site per Form.

Facility ID (if known)

Facility Name (if known)

Address
418, 426, 430 Firmin St

City
Los Angeles

Zip Code
90026

Johnston, James

From: Johnston, James
Sent: Tuesday, June 06, 2017 12:19 PM
To: 'RB4-PublicRecords@waterboards.ca.gov'
Subject: Public Records Request

Hello,

This firm is performing a Phase I Environmental Site Assessment on a property located at the following addresses:

25, 368 Park Pl., Los Angeles, CA 90026
25, 368 Fireman., Los Angeles, CA 90026

We are requesting any records in relation to the subject property. Please feel free to contact me with any questions or concerns related to this request at 310-854-6300.

Thank you for your time and consideration in this matter.

Regards,

James Kyle Johnston
Environmental Specialist

EFI Global Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

T 310 854 6300
TF 888 705 6300
F 310 854 0199
M 310 256 0179
E James_Johnston@efiglobal.com

www.efiglobal.com
Assign a Project 24/7: efiglobal.com/Assign-a-Project

CSLB License #: 885902 – A, B, HAZ, ASB

EFI Global
Engineering, Fire & Environmental Services

EFI Global

Engineering, Fire & Environmental Services

To:	Department of Toxic Substances Control, Chatsworth Regional Office Attn: Regional Records Coordinator	**Fax:**	(818) 717-6526 **Phone:** (818) 717-6521
From:	James Johnston	**Date:**	6/6/2017
Re:	Records Request	**Pages:**	1
CC:			

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** **X Please Reply** ☐ **For Information**

Regional Records Coordinator,

This firm is requesting a review of all files/reports both current and historical for the property located at:

25, 368 Park Pl., Los Angeles, CA 90026
25, 368 Fireman., Los Angeles, CA 90026

Please feel free to contact me with any questions or concerns.

Sincerely,
James Johnston

James_Johnston@EFIGLOBAL.com

EFI Global, Inc.
5261 West Imperial Highway
Los Angeles, CA 90045
P: 310-854-6300
F: 310-854-0199

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Print
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Copy
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TX
- Job History

RX
- Job History

Status Monitor/Cancel: TX: Job History

TX: Job History

Last Updated:06/06/2017 12:29:05 PM

TX Job History List

Job No.	Result	Start Time	Duration	Job Type	Destination	User Name	Originals	Original Pages	TX Pages
4238	OK	06/06/2017 12:26:52 PM	00'42	Fax	18187176526	jjohnston	1	1	1
4237	OK	06/06/2017 12:24:41 PM	00'58	Fax	13233426111	jjohnston	1	1	1

EFI Global

Engineering, Fire & Environmental Services

To:	Cecilia Dominguez	**Fax:**	323-342-6111
	Industrial Waste Management Division, Bureau of Sanitation, City of Los Angeles	**Phone:**	323-342-6061
From:	James Johnston	**Fax:**	310-854-0199
Re:	Sanitation Records	**Date**:	6/6/2017
CC:		**Pages (incl. cover):**	1

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** X **Please Reply** ☐ **For Information**

In preparation for a Phase I Environmental Site Assessment, I would like to request available records pertaining to industrial wastewater discharge, clarifiers, storm water/waste water, and inspection records for the following addresses:

25, 368 Park Pl., Los Angeles, CA 90026
25, 368 Fireman., Los Angeles, CA 90026

If permits are found for the aforementioned property, please fax the information to us, otherwise standard mailing is sufficient. We understand that a fax fee will be accrued for faxing the information.

Thank you.

Sincerely,
James Johnston

James_Johnston@efiglobal.com
EFI Global, Inc.
5261 West Imperial Highway
Los Angeles, CA 90045
P: 310-854-6300
F: 310-854-0199

CONFIDENTIAL

Johnston, James

From: Johnston, James
Sent: Tuesday, June 06, 2017 12:19 PM
To: 'phicor@ph.lacounty.gov'
Subject: Public Records Request

Custodian of Records,

This firm is performing a Phase 1 Environmental Site Assessment on properties located at the following address:

25, 368 Park Pl., Los Angeles, CA 90026
25, 368 Fireman., Los Angeles, CA 90026

We are requesting any information from your department pertaining to any spills or releases of hazardous materials (HAZMAT) or substances or petroleum products that have ever been located on the properties. Please feel free to contact me with any questions or concerns at 310-854-6300. Thank you for your assistance with this information.

Regards,

James Kyle Johnston
Environmental Specialist

EFI Global Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

T 310 854 6300
TF 888 705 6300
F 310 854 0199
M 310 256 0179
E James_Johnston@efiglobal.com

www.efiglobal.com
Assign a Project 24/7: efiglobal.com/Assign-a-Project

CSLB License #: 885902 – A, B, HAZ, ASB

EFI Global
Engineering, Fire & Environmental Services

Johnston, James

From: Johnston, James
Sent: Tuesday, June 06, 2017 12:13 PM
To: 'lafdarson@lacity.org'
Subject: Public Records Request

Hello,

This firm would like to request all records from earliest to present for the following address:
25, 368 Park Pl., Los Angeles, CA 90026
25, 368 Fireman., Los Angeles, CA 90026
Pertaining to:

- Underground storage tanks (USTs) installation, monitoring and removal.
- Hazardous Materials/Waste inspections, inventories, and release/cleanup

Please feel free to contact me at 310-854-6300 with any questions.

Thank you for your time.

Regards,

James Kyle Johnston
Environmental Specialist

EFI Global Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

T 310 854 6300
TF 888 705 6300
F 310 854 0199
M 310 256 0179
E James_Johnston@efiglobal.com

www.efiglobal.com
Assign a Project 24/7: efiglobal.com/Assign-a-Project

CSLB License #: 885902 – A, B, HAZ, ASB

EFI Global
Engineering, Fire & Environmental Services

Johnston, James

From: Johnston, James
Sent: Tuesday, June 06, 2017 12:16 PM
To: 'lafd.usttestnotify@lacity.org'
Subject: Public Records Request
Attachments: LAFD UST RECORDS REQUEST FORM fireman.pdf; LAFD UST RECORDS REQUEST FORM Park.pdf

Hello,

This firm is requesting a review of all current and historical files/reports for the addresses in the attached forms.

Please feel free to contact me with any questions or concerns at **310-854-6300**.

Thank you very much!

Regards,

James Kyle Johnston
Environmental Specialist

EFI Global Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

T 310 854 6300
TF 888 705 6300
F 310 854 0199
M 310 256 0179
E James_Johnston@efiglobal.com

www.efiglobal.com
Assign a Project 24/7: efiglobal.com/Assign-a-Project

CSLB License #: 885902 – A, B, HAZ, ASB

EFI Global
Engineering, Fire & Environmental Services

LOS ANGELES FIRE DEPARTMENT
UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS
ADDRESS: 200 NORTH MAIN ST., 17TH FLR. RM. 1700
NEW OFFICE# - 213-978-3700 NEW EMAIL lafd.usttestnotify@lacity.org

PLEASE GIVE US 7 TO 10 BUSINESS DAYS TO HONOR YOUR REQUEST.

ONE ADDRESS ONLY - PER SHEET

COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED

PHONE NO: (310) 854-6300 EMAIL: James_Johnston@efiglobal.com

NAME OF REQUESTER (PLEASE PRINT): James Johnston

REPRESENTING (COMPANY NAME): EFI Global

SIGNATURE: _____ DATE: 6/6/2017

DRIVER LIC NO: _____ EXP: _____

ADDRESS FOR WHICH RECORDS ARE REQUESTED: _____

25, 368 Fireman., Los Angeles, CA 90026

REASON FOR REQUEST: PHASE I ENVIRONMENTAL SITE ASSESSMENT

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+ $11.00

TOTAL FEE AMOUNT: _____

BILLING & ACCOUNTS RECEIVABLE
16TH FL, Rm. 1620, 200 N. MAIN (REV CODE #3887)

LOS ANGELES FIRE DEPARTMENT
UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS
ADDRESS: 200 NORTH MAIN ST., 17TH FLR. RM. 1700
NEW OFFICE# - 213-978-3700 NEW EMAIL lafd.usttestnotify@lacity.org

PLEASE GIVE US 7 TO 10 BUSINESS DAYS TO HONOR YOUR REQUEST.

ONE ADDRESS ONLY - PER SHEET

↓ COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED ↓

PHONE NO: (310) 854-6300 EMAIL: James_Johnston@efiglobal.com

NAME OF REQUESTER (PLEASE PRINT): James Johnston

REPRESENTING (COMPANY NAME): EFI Global

SIGNATURE: _____ DATE: 6/6/2017

DRIVER LIC NO: _____ EXP: _____

ADDRESS FOR WHICH RECORDS ARE REQUESTED: _____

25, 368 Park Pl., Los Angeles, CA 90026

REASON FOR REQUEST: PHASE I ENVIRONMENTAL SITE ASSESSMENT

NO COPY SERVICES ALLOWED

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NUMBER OF PAGES: _____

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= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING & ACCOUNTS RECEIVABLE
16TH FL, Rm. 1620, 200 N. MAIN (REV CODE #3887)

Requestor Information

Requestor Name
James Johnston

Requestor Company
EFI Global

Requestor Email*
JAMES_JOHNSTON@EFIGLOBAL.COM

Requestor Phone
(310)854-6300

Requestor Address

Requestor City

Requestor State

Requestor Zip Code

Type of Requested Record(s).

REQUESTED RECORDS. Please be as specific as possible in describing the records you are seeking. The more specific you are, the easier it will be to determine if such records exist in District files. Please contact the Public Records Unit if you need assistance in identifying District records.

Note: Permits to Operate, Equipment Lists, Notices of Violation, Notices to Comply, and Emissions Summaries are available through SCAQMD's FIND page at http://www3.aqmd.gov/webappl/fim/prog/search.aspx (you need to copy and paste this link into your browser).

Please Enter a description of the records you are requesting here:*
We are requesting any information from your departments pertaining to air emissions, including permits to operate, equipment lists and notices of violation.

Time Period of Documents Requested

Start Date*
1/1/1906

End Date*
6/6/2017

Requested Facility or Site Information (if applicable)

Note: You may only include one Facility or Site per Form.

Facility ID (if known)

Facility Name (if known)

Address
25, 368 Fireman

City
Los Angeles

Zip Code
90026

Requestor Information

Requestor Name
James Johnston

Requestor Company
EFI Global

Requestor Email*
JAMES_JOHNSTON@EFIGLOBAL.COM

Requestor Phone
(310)854-6300

Requestor Address

Requestor City

Requestor State

Requestor Zip Code

Type of Requested Record(s).

REQUESTED RECORDS. Please be as specific as possible in describing the records you are seeking. The more specific you are, the easier it will be to determine if such records exist in District files. Please contact the Public Records Unit if you need assistance in identifying District records.

Note: Permits to Operate, Equipment Lists, Notices of Violation, Notices to Comply, and Emissions Summaries are available through SCAQMD's FIND page at http://www3.aqmd.gov/webappl/fim/prog/search.aspx (you need to copy and paste this link into your browser).

Please Enter a description of the records you are requesting here:*
We are requesting any information from your departments pertaining to air emissions, including permits to operate, equipment lists and notices of violation.

Time Period of Documents Requested

Start Date*
1/1/1906

End Date*
6/6/2017

Requested Facility or Site Information (if applicable)

Note: You may only include one Facility or Site per Form.

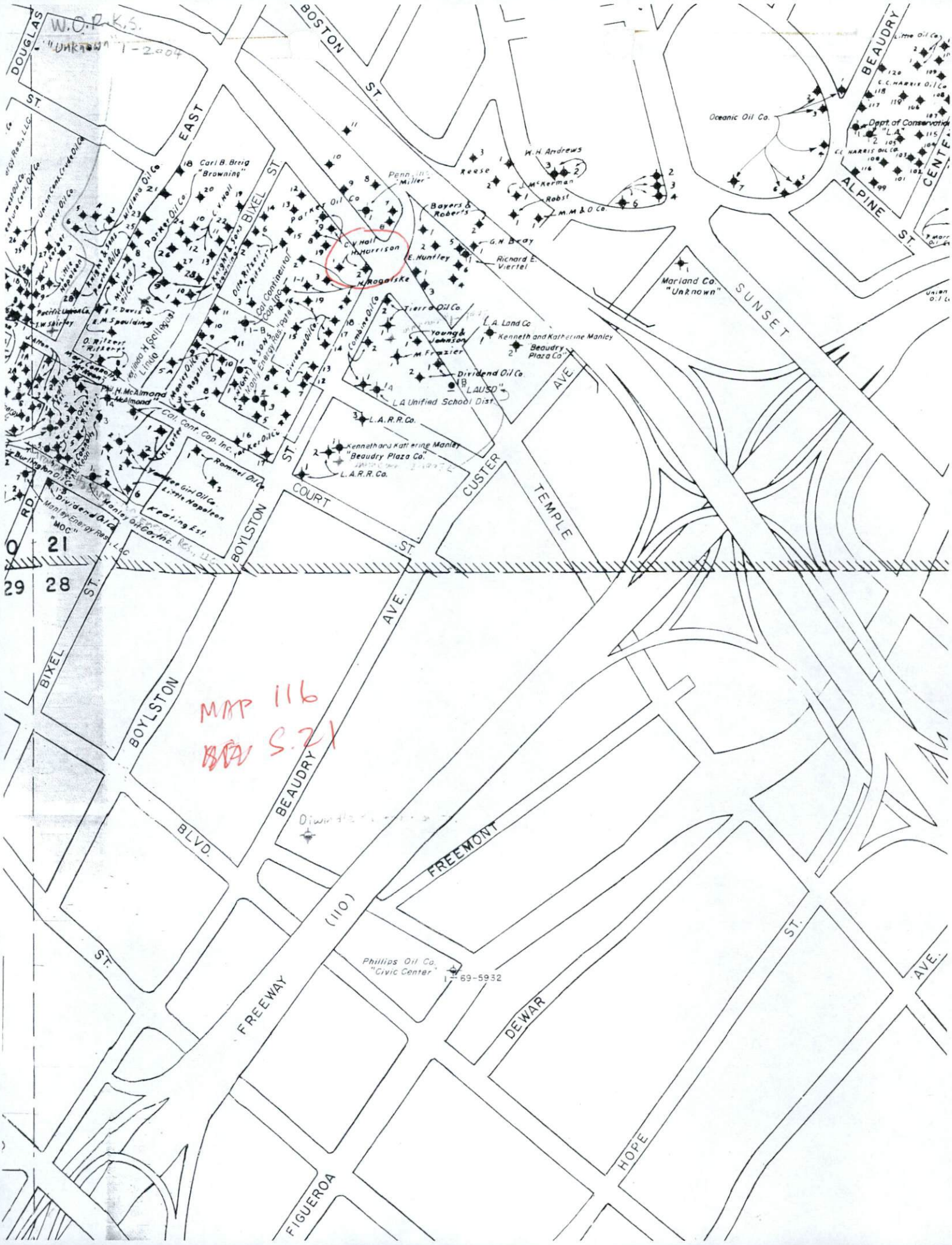
Facility ID (if known)

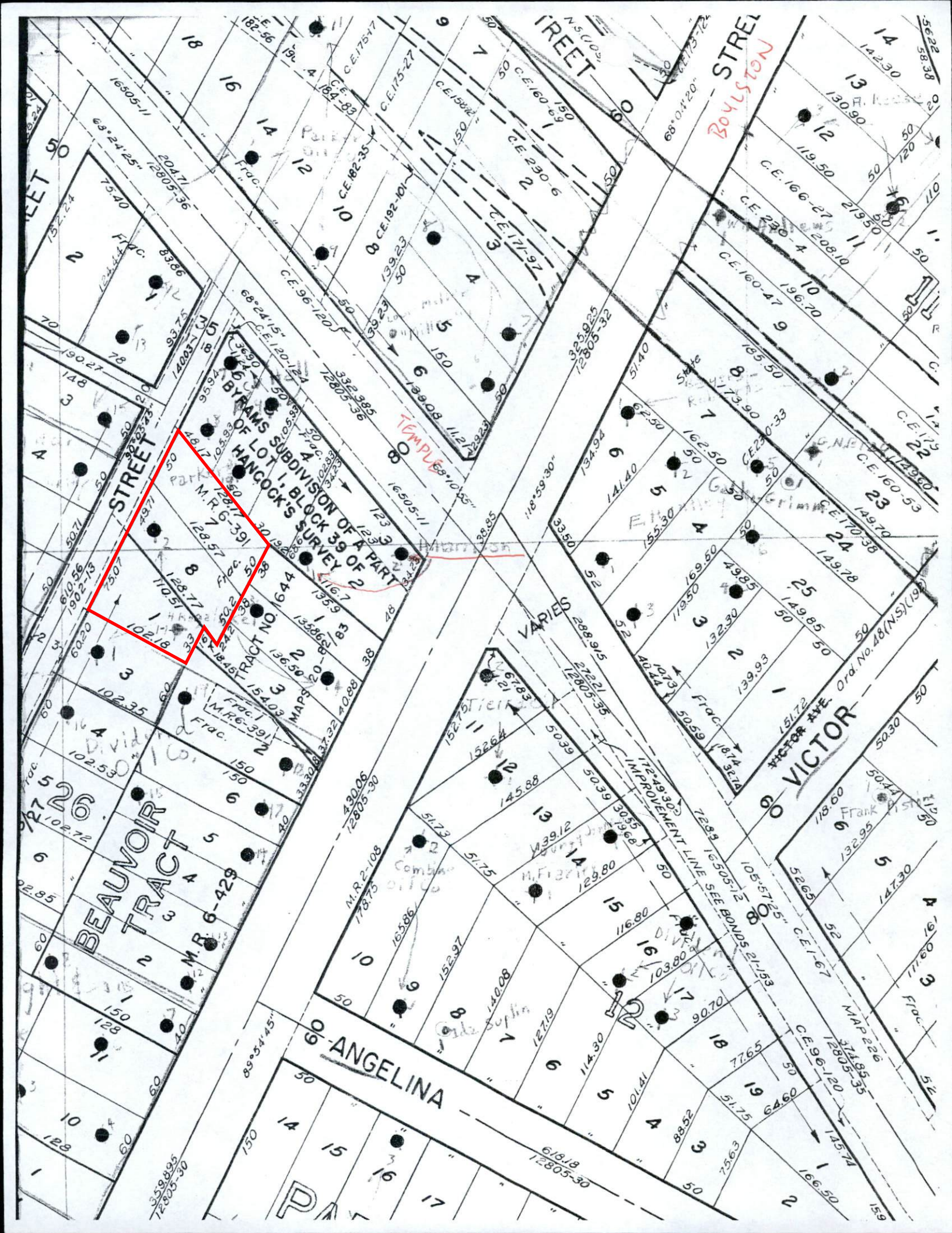
Facility Name (if known)

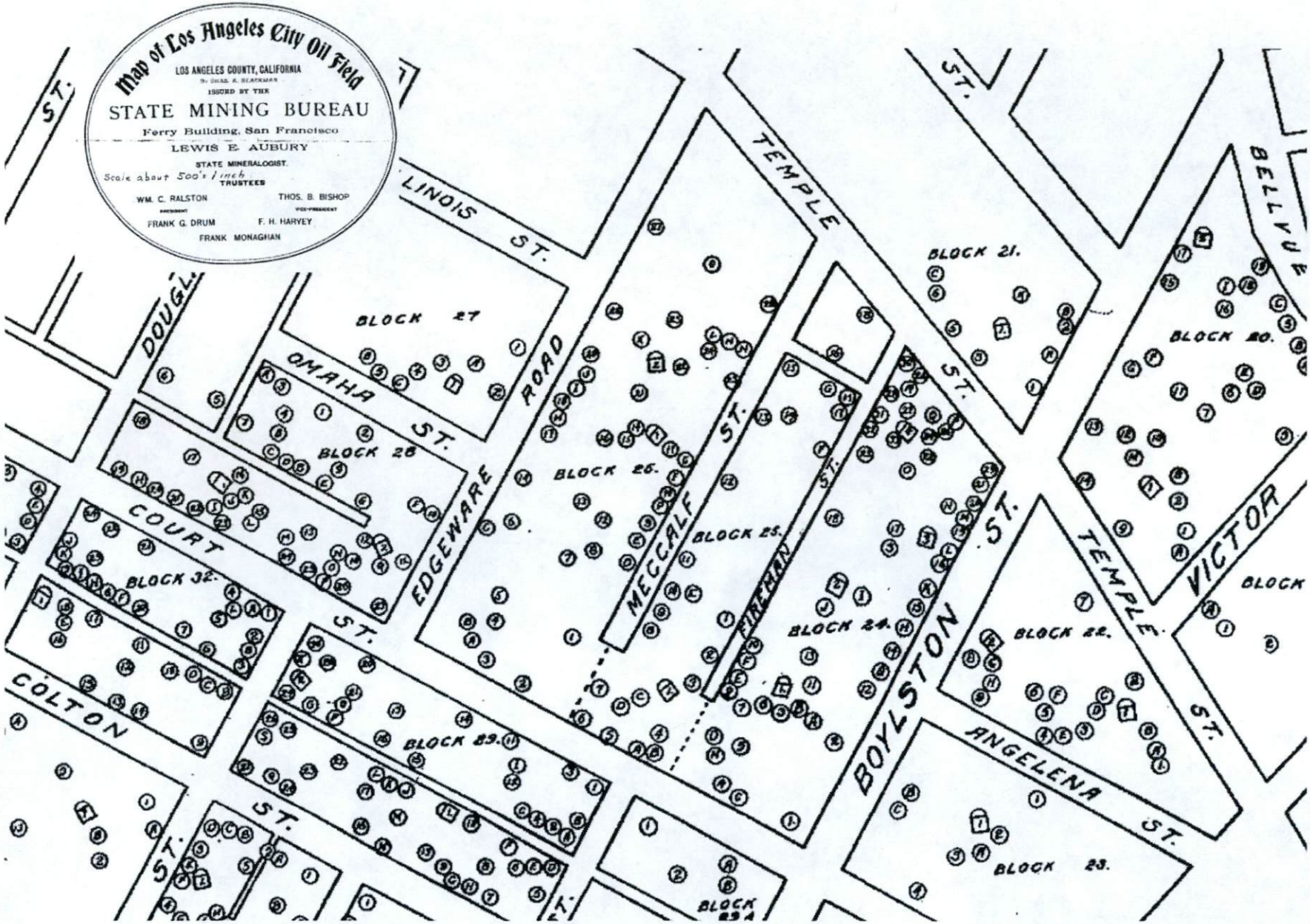
Address
25, 368 Park Pl

City
Los Angeles

Zip Code
90026


W.O.R.K.S.
"Unknown" 1-2004
DOUGLAS ST.
EAST
BOSTON ST.
BEAUDRY
ALPINE ST.
SUNSET
BIXEL ST.
COURT ST.
CUSTER AVE
TEMPLE
BOYLSTON
BEAUDRY AVE.
BIXEL ST.
BLVD.
FREEMONT
FREEWAY (110)
DEWAR
HOPE ST.
AVE.
FIGUEROA
Oceanic Oil Co.
Dept. of Conservation "L.A."
C.C. HARRIS OIL CO.
W.H. Andrews
Reese
J. McKernan
Robst
M.M. & O. Co.
Carl B. Breig "Browning"
Parker Oil Co
Pennzoil Miller
Bayers & Roberts
G.H. Bray
E. Huntley
Richard E. Viertel
C.V. Hall
H. Morrison
H. Nagaiske
Marland Co. "Unknown"
Tierra Oil Co.
L.A. Land Co.
Young & Johnson
M. Frazier
Kenneth and Katherine Manley
Beaudry Plaza Co.
Dividend Oil Co.
"LAUSD"
L.A. Unified School Dist.
L.A.R.R. Co.
Kenneth and Katherine Manley "Beaudry Plaza Co."
Rommel Oil Co.
Yankee Girl Oil Co.
Little Napoleon
Keating Est.
Manley Oil Co. Inc.
Dividend Oil Co. "MOC"
Manley Energy Res. LLC
Phillips Oil Co. "Civic Center"
I-69-5932
MAP 116
BK S.21
29
28
21


BEAUNOIR TRACT
M.R. 6-429
BYRAMS SUBDIVISION OF A PART OF LOT 1, BLOCK 39 OF 2 HANCOCK'S SURVEY
M.R. 6-391
TRACT NO. 1
M.R. 6-391
STREET
TEMPLE
VARIES
VICTOR
ANGELINA
BOULSTON
MAP 226
IMPROVEMENT LINE SEE BONDS 21-153
Ord No. 48 (N.S.) (19


Map of Los Angeles City Oil Field
LOS ANGELES COUNTY, CALIFORNIA
ISSUED BY THE
STATE MINING BUREAU
Ferry Building, San Francisco
LEWIS E. AUBURY
STATE MINERALOGIST.
Scale about 500 ft / inch
TRUSTEES
WM. C. RALSTON
THOS. B. BISHOP
FRANK G. DRUM
F. H. HARVEY
FRANK MONAGHAN
ST.
ILLINOIS ST.
DOUGL
OMAHA ST.
BLOCK 27
BLOCK 28
COURT
BLOCK 32.
COLTON
ST.
EDGEWARE ROAD
TEMPLE
BLOCK 26.
MECCALF ST.
BLOCK 25.
FIRTHAN ST.
BLOCK 24.
BLOCK 21.
BOYLSTON ST.
BLOCK 89.
BLOCK 89A
BLOCK 22.
TEMPLE ST.
ANGELENA ST.
BLOCK 23.
BELLVUE
BLOCK 20.
VICTOR
BLOCK

Index to Map of Oil Field in City of Los Angeles, Los Angeles County, Cal.

KEY TO INDEX: P.—Wells pumping. N.P.—Wells not pumping. D.—Wells drilling. A.W.—Wells abandoned; no derricks. W.W.—Water wells. B.—Wells which are bailed. P.C.—Pulling casing to abandon. C.B.—Wells not producing, used for counterbalance. A.D.—Abandoned derricks. S.—Steam pumping plants. G.—Gas pumping plants. E.—Electric pumping plants. A.S.—Abandoned steam plants. A.G.—Abandoned gas plants. A.E.—Abandoned electric plants. P.D.G.—Portable drilling rig. Cons.—Consolidated. O.—Oil.

BLOCK No. 16 (Continued).

Wells.	*Tanks.*	*Plants.*	
No. 4 P....	.....	.....	Bassett, H. E., Pasadena, Cal.
No. 5 P....	D.E.F.G....	No. 1 S.	Little O. Co., Pasadena, Cal. (H. E. Bassett).
No. 6 P....	.....	.....	Little O. Co., Pasadena, Cal. (H. E. Bassett).
No. 7 P....	.....	.....	Little O. Co., Pasadena, Cal. (H. E. Bassett).
No. 8 D....	.....	.....	Little O. Co., Pasadena, Cal. (H. E. Bassett).
No. 9 P....	H.I.....	.....	Davis & Harrison, 821 Hinton Ave.
No. 10 P....	.....	.....	Davis & Harrison, 821 Hinton Ave.
No. 11 P....	.....	.....	Davis & Harrison, 821 Hinton Ave.
No. 12 P....	K.L.....	.....	Greene, Calvin, 811 Bonnie Brae St.
No. 13 P....	.....	.....	Greene, Calvin, 811 Bonnie Brae St.
No. 14 P....	M.N.....	.....	Davis & Harrison, 821 Hinton Ave.
No. 15 P....	.....	.....	Davis & Harrison, 821 Hinton Ave.
No. 16 P....	.....	.....	Davis & Harrison, 821 Hinton Ave.
No. 17 P....	O.....	.....	O'Donnell O. Co., 129 S. Bonnie Brae St.
No. 18 P....	P.....	.....	Alpha O. Co., 242 Byrne Blk.
No. 19 P....	.....	.....	Alpha O. Co., 242 Byrne Blk.
No. 20 P....	.....	.....	Alpha O. Co., 242 Byrne Blk.
No. 21 P....	G.R.....	.....	United Petroleum O. Co. (A. G. Calkins, 625 N. Belmont Ave.)
No. 22 P....	.....	.....	United Petroleum O. Co. (A. G. Calkins, 625 N. Belmont Ave.)
No. 23 P....	.....	.....	O'Donnell O. Co., 129 S. Bonnie Brae St.
No. 24 A.D..	.....	.....	Unknown owner.
No. 25 P....	T.....	.....	Midland O. Co., 310 Lankershim Blk.
No. 26 P....	.....	.....	Midland O. Co., 310 Lankershim Blk.
No. 27 P....	U.....	No. 3 G....	Cons. Crude O. Co., 701 College St.
No. 28 P....	.....	.....	Cons. Crude O. Co., 701 College St.
No. 29 P....	.....	.....	Cons. Crude O. Co., 701 College St.
.....	J.....	No. 2 G....	Harrison & Jewell, 821 Hinton Ave.
.....	S.....	.....	Alliance O. Co., 129 S. Bonnie Brae St.

BLOCK No. 17.

No. 1 P....	A.....	.....	Burlington O. Co., 106 N. Belmont Ave.
No. 2 P....	B.C.D.....	.....	Oceanic O. Co., 242 Byrne Blk.
No. 3 P....	.....	.....	Oceanic O. Co., 242 Byrne Blk.
No. 4 P....	.....	.....	Oceanic O. Co., 242 Byrne Blk.
No. 5 P....	.....	.....	Oceanic O. Co., 242 Byrne Blk.
No. 6 P....	.....	.....	Oceanic O. Co., 242 Byrne Blk.

BLOCK No. 18.

No. 1 P....	A.B.C.....	No. 1 G....	Los Ang. Pac. Electric R. R. Co., Smith, 4th & Hill.
No. 2 P....	.....	.....	Los Ang. Pac. Electric R. R. Co., Smith, 4th & Hill.
No. 3 P....	.....	.....	Los Ang. Pac. Electric R. R. Co., Smith, 4th & Hill.
No. 4 P....	.....	.....	Los Ang. Pac. Electric R. R. Co., Smith, 4th & Hill.
No. 5 P....	.....	.....	Los Ang. Pac. Electric R. R. Co., Smith, 4th & Hill.
No. 6 P....	.....	.....	Los Ang. Pac. Electric R. R. Co., Smith, 4th & Hill.

BLOCK No. 19.

No. 1 P....	A.....	.....	Little Napoleon O. Co., 207 Currier Blk.
No. 2 P....	.....	.....	Huntley, E., Temple (bet. Victor & Boylston Sts.)

BLOCK No. 20.

Wells.	*Tanks.*	*Plants.*	
No. 1 P....	A.....	.....	Little Napoleon O. Co., 207 Currier Blk.
No. 2 P....	.....	.....	Burns, John, 119 S. Broadway.
No. 3 P....	D.....	.....	Robst, Mrs., 341 Victor St.
No. 4 P....	B.....	.....	M. & M. O. Co., 530 S. Broadway.
No. 5 P....	C.....	.....	McKernan, Mrs, 530 S. Broadway.
No. 6 A.D..	E.....	.....	Mannett, Mrs., 1 Temple Court.
No. 7 P....	H.....	No. 1 G....	Huntley, E., Temple (bet. Victor & Boylston Sts.)
No. 8 P....	.....	.....	Huntley, E., Temple (bet. Victor & Boylston Sts.)
No. 9 P....	.....	.....	Huntley, E., Temple (bet. Victor & Boylston Sts.)
No. 10 P....	.....	.....	Huntley, E., Temple (bet. Victor & Boylston Sts.)
No. 11 N.P..	F.G.....	.....	Bayers & Roberts, Hotel Locke.
No. 12 N.P..	.....	.....	Huntley, E., Temple (bet. Victor & Boylston Sts.)
No. 13 N.P..	.....	.....	Bayers & Roberts, Hotel Locke.
No. 14 P....	.....	.....	Huntley, E., Temple (bet. Victor & Boylston Sts.)
No. 15 P....	.....	.....	E. A. Clampit, cor. Colton and Patton Sts.
No. 16 P....	.....	.....	E. A. Clampit, cor. Colton and Patton Sts.
No. 17 P....	I.....	.....	Reese, A. D., 442 S. Main St.
No. 18 P....	.....	.....	Reese, A. D., 442 S. Main St.
No. 19 P....	.....	.....	Reese, A. D., 442 S. Main St.

BLOCK No. 21.

No. 1 P....	A.B.C.....	No. 1 G....	Parker O. Co., 224 Henne Blk.
No. 2 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 3 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 4 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 5 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 6 P....	.....	.....	Parker O. Co., 224 Henne Blk.

BLOCK No. 22.

No. 1 P....	A.....	.....	Frazier, Mrs., Redondo, Cal.
No. 2 P....	B.C.D.....	No. 1 A.S...	Tierra O. Co., 107 Henne Blk.
No. 3 P....	.....	.....	Tierra O. Co., 107 Henne Blk.
No. 4 P....	E.....	.....	Young & Johnson, 107 N. Union Ave.
No. 5 P....	F.....	No. 2 S....	Dividend O. Co., 502 Bradbury Blk.
No. 6 A.W.	.....	.....	Dividend O. Co., 502 Bradbury Blk.
No. 7 N.P..	.....	.....	Dividend O. Co., 502 Bradbury Blk.
No. 8 P....	G.H.....	.....	Combined O. & Land Co., 36 Bryson Blk.
No. 9 P....	.....	.....	Combined O. & Land Co., 36 Bryson Blk.

BLOCK No. 23.

No. 1 P....	B.C.....	No. 1 E....	Los Angeles Railway Co., cor. 6th and Main Sts.
No. 2 P....	.....	.....	Los Angeles Railway Co., cor. 6th and Main Sts.
No. 3 P....	A.....	.....	Knight & Sons, 315 Boylston St.
No. 4 P....	.....	.....	Los Angeles Railway Co., cor. 6th and Main Sts.

BLOCK No. 24.

No. 1 P....	C.....	.....	Parker O. Co., 224 Henne Blk.
No. 2 P....	A.B.....	.....	Harrison, H. H., 821 Hinton Ave.
No. 3 P....	.....	.....	Harrison, H. H., 821 Hinton Ave.
No. 4 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 5 N.P..	.....	No. 1 S.	Knight & Sons, 315 Boylston St.
No. 6 N.P..	.....	.....	Knight & Sons, 315 Boylston St.
No. 7 P....	.....	.....	Knight & Sons, 315 Boylston St.
No. 8 P....	D.....	.....	McClanahan, C., 1217 Court St.
No. 9 P....	E.F.G.....	.....	Knight & Sons, 315 Boylston St.

KEY TO INDEX: P.—Wells pumping. N.P.—Wells not pumping. D.—Wells drilling. A.W.—Wells abandoned; no derricks. W.W.—Water wells. B.—Wells which are bailed. P.C.—Pulling casing to abandon. C.B.—Wells not producing, used for counterbalance. A.D.—Abandoned derricks. S.—Steam pumping plants. G.—Gas pumping plants. E.—Electric pumping plants. A.S.—Abandoned steam plants. A.G.—Abandoned gas plants. A.E.—Abandoned electric plants. P.D.G.—Portable drilling rig. Cons.—Consolidated. O.—Oil.

BLOCK No. 24 (Continued).

Wells.	*Tanks.*	*Plants.*	
No. 10 N.P..	.....	.....	Knight & Sons, 315 Boylston St.
No. 11 N.P..	.....	.....	Knight & Sons, 315 Boylston St.
No. 12 P....	.....	.....	Knight & Sons, 315 Boylston St.
No. 13 P....	.....	.....	Knight & Sons, 315 Boylston St.
No. 14 P....	H.K.L.M. ..	No. 3 S.	Dividend O. Co., 502 Bradbury Blk.
No. 15 P....	N.O.S.....	.....	Dividend O. Co., 502 Bradbury Blk.
No. 16 P....	.....	.....	Dividend O. Co., 502 Bradbury Blk.
No. 17 A. D..	.....	.....	Dividend O. Co., 502 Bradbury Blk.
No. 18 P....	.....	.....	Dividend O. Co., 502 Bradbury Blk.
No. 19 P....	P.Q.....	No. 4 S.	Robinson O. Co., 318 Metcalf St.
No. 20 P....	.....	.....	Dividend O. Co., 502 Bradbury Blk.
No. 21 P....	.....	.....	Dividend O. Co., 502 Bradbury Blk.
No. 22 N.P..	.....	.....	Dividend O. Co., 502 Bradbury Blk.
No. 23 P....	.....	.....	Knight & Sons, 315 Boylston St.
No. 24 P....	.....	.....	Dividend O. Co., 502 Bradbury Blk.
No. 25 P....	.....	.....	Robinson O. Co., 318 Metcalf St.
No. 26 P....	R.....	.....	Hall, Chas. V., 308½ S. Spring St.
No. 27 P....	.....	.....	Hall, Chas. V., 308½ S. Spring St.
No. 28 P....	.....	.....	Hall, Chas. V., 308½ S. Spring St.
No. 29 P....	.....	.....	Robinson O. Co., 318 Metcalf St.
No. 30 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 31 P....	....	.....	Robinson O. Co., 318 Metcalf St.
No. 32 P....	.....	.....	Robinson O. Co., 318 Metcalf St.
No. 33 P....	.....	.....	Robinson, George S., Metcalf St., off Temple.
.....	L.J.....	No. 2 S.....	Victor Commission Co., 502 Bradbury Blk.

BLOCK No. 25.

No. 1 N.P..	.....	.....	Knight & Sons, 315 Boylston St.
No. 2 P....	.....	No. 1 S.... ..	Robinson O. Co., 318 Metcalf St.
No. 3 P....	.....	.....	Robinson O. Co., 318 Metcalf St.
No. 4 P....	A.B.....	.....	Parker Morrell O. Co., 224 Henne Blk.
No. 5 P....	C.D.....	.....	Robinson O. Co., 318 Metcalf St.
No. 6 P....	.....	.....	Robinson O. Co., 318 Metcalf St.
No. 7 P....	.....	.....	Robinson O. Co., 318 Metcalf St.
No. 8 P....	.....	.....	Robinson O. Co , 318 Metcalf St.
No. 9 P....	E.F.....	.....	Knight & Sons, 315 Boylston St.
No. 10 P....	.....	.....	Knight & Sons, 315 Boylston St.
No. 11 A.D..	.....	.....	Parker Morrell O. Co., 224 Henne Blk.
No. 12 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 13 P....	.....	.....	Knight & Sons, 315 Boylston St.
No. 14 P....	....	.....	Robinson O. Co., 318 Metcalf St.
No. 15 P....	G.H.....	.....	Lawrence, George W., 1015 W. Seventh St.
No. 16 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 17 N.P.,	.....	.....	Lawrence, George W., 1015 W. Seventh St.
No. 18 P....	.....	.....	Parker O. Co., 224 Henne Blk.

BLOCK No. 26.

No. 1 P....	A.B.....	.....	Robinson O. Co., 318 Metcalf St.
No. 2 P....	.....	.....	Robinson O. Co., 318 Metcalf St.
No. 3 P....	.....	.....	Robinson O. Co., 318 Metcalf St.
No. 4 P....	.....	.....	Robinson O. Co., 318 Metcalf St.
No. 5 P....	C.....	.....	Davis, Frank, 833 Bartlett St.
No. 6 P....	.....	.....	Davis, Frank, 833 Bartlett St.
No. 7 P....	D.E.....	.....	Parker O. Co., 224 Henne Blk.
No. 8 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 9 P....	.....	.....	Knight & Sons, 315 Boylston St.

BLOCK No. 26 (Continued).

Wells.	*Tanks.*	*Plants.*	
No. 10 P....	F.....	.....	Hutchinson O. Co., 315 Byrne Blk.
No. 11 P....	G.....	No. 1 S....	Hall, Chas. V., 308½ S. Spring St.
No. 12 N.P..	H.....	.....	Knight & Sons, 315 Boylston St.
No. 13 P....	.....	.....	Midland O. Co., 310 Lankershim Blk.
No. 14 P....	.....	.....	Midland O. Co., 310 Lankershim Blk.
No. 15 P....	.....	... .	Hall, Chas. V., 308½ S. Spring St.
No. 16 P....	I.J.K.L....	No. 2 G.....	Parker O. Co., 224 Henne Blk.
No. 17 P....	P.....	.....	Knight & Sons, 315 Boylston St.
No. 18 P....	M.N.O.....	.....	Parker O. Co., 224 Henne Blk.
No. 19 P....	.....	.....	Hall, Chas. V., 308½ S. Spring St.
No. 20 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 21 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 22 P....	.....	.....	Hall, Chas. V., 308½ S. Spring St.
No. 23 P....	.....	.....	Hall, Chas. V., 308½ S. Spring St.
No. 24 A.D..	.....	.....	Parker O. Co., 224 Henne Blk.
No. 25 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 26 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 27 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 28 P....	.....	.....	Parker O. Co.. 224 Henne Blk.

BLOCK No. 27.

No. 1 P....	A.C.....	No. 1 G.....	Midland O. Co., 310 Lankershim Blk.
No. 2 P....	.....	.....	Midland O. Co., 310 Lankershim Blk.
No. 3 P....	.....	.....	Midland O. Co., 310 Lankershim Blk.
No. 4 P....	.....	.....	Midland O. Co., 310 Lankershim Blk.
No. 5 P....	.....	.....	Midland O. Co., 310 Lankershim Blk.
....	B.....	.....	Parker O. Co., 224 Henne Blk.

BLOCK No. 28.

No. 1 P....	.....	.....	Parker O. Co., 224 Henne Blk.
No. 2 P....	G.....	.....	Harvey, Mrs., 312 Omaha St.
No. 3 P....	B.C.....	.....	Union Cons. Crude O. Co., 121 S. Broadway.
No. 4 P....	.....	.....	Union Cons. Crude O. Co., 121 S. Broadway.
No. 5 P....	.....	.....	Union Cons. Crude O. Co., 121 S. Broadway.
No. 6 P....	.....	.....	Union Cons. Crude O. Co., 121 S. Broadway.
No. 7 P....	A.....	.....	Southwestern O. Co., 80 Bryson Blk.
No. 8 P....	D.....	.....	Korber, J., 1320 Omaha St.
No. 9 P....	E.....	.....	Little Napoleon O. Co., 207 Currier Blk.
No. 10 P.C..	F.....	....	Parker O. Co., 224 Henne Blk.
No. 11 A.D..	.....	.....	Southwestern O. Co., 80 Bryson Blk.
No. 12 A.D..	.....	.....	Southwestern O. Co., 80 Bryson Blk.
No. 13 P....	.....	.....	Burns, John, 119 S. Broadway.
No. 14 P....	.....	.....	Southwestern O. Co., 80 Bryson Blk.
No. 15 P....	L.....	No. 1 G.....	Manley, M., 2304 S. Grand Ave.
No. 16 P....	....	.....	Southwestern O. Co., 80 Bryson Blk.
No. 17 P....	H.....	.....	Knight & Sons, 315 Boylston St.
No. 18 P....	.....	.....	Alderson, Mrs. J. H., 1807 S. Hope St.
No. 19 P....	.....	.....	Alderson, Mrs. J. H., 1807 S. Hope St.
No. 20 P....	.....	....	Knight & Sons, 315 Boylston St.
No. 21 A.D..	.....	.....	Midland O. Co., 310 Lankershim Blk.
No. 22 P....	I.J.K.	.....	Southwestern O. Co., 80 Bryson Blk.
No. 23 P....	.....	.....	Southwestern O. Co., 80 Bryson Blk.
No. 24 N.P..	M.....	.....	Burns, John, 119 S. Broadway.
No. 25 A.W.	N.O.P.....	.....	Burns and Ruddy, 119 S. Broadway.
No. 26 A.D..	Q.....	.....	Southwestern O. Co., 80 Bryson Blk.
No. 27 P....	.....	.....	Southwestern O. Co., 80 Bryson Blk.

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECK LIST – WellStats ORPHAN OPERATOR WELL ENTRY PROJECT

Company:	H. Rogalske	Well:	1-1
API#:	037-03873	Sec. 21 , T. 1 S, R. 13 W. S. B. B. & M.	
County:	Los Angeles	Field:	Los Angeles City

PDOX	Enter Date- 3-15-07	Initials-
WellStats	Enter Date- 4-18-07	Initials-
MAP and MAP WORK	Enter Date- 2/26/08 MAP# 116	Initials dms

- Return File(s) to Valerie when mapping is complete.

N/C

Add 5-41

OPCode: 03708

Created by DOGGR

Kenneth I. Fulton
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E. Huguenin, Deputy

629 South Hill Street
Los Angeles, California
June 6, 1941.

Mr. Harris Rogalske, Contractor,
706 S. Fickett St.,
Los Angeles, Calif.

Dear Sir:

Your report of abandonment of well No. 1, located at 418 North Firmin Street, Los Angeles City field, Los Angeles County, dated May 6, 1941, and submitted to this Division on our form 102, has been examined in conjunction with records filed in this office.

A review of the reports and records shows that the requirements of this Division, which are based on all information filed with it, have now been fulfilled.

Yours truly,

R. D. Bush
State Oil and Gas Supervisor

By E. Huguenin
Deputy Supervisor.

CC - Mr. R. D. Bush

CVB:EMS

Reference to file or data

Maps	Model	Cross Section	Cards	Forms 114	Forms 120

No change on map.

FORM 102. 54822 2-38 10M.
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
MAY 6 - 1941
LOS ANGELES, CALIFORNIA

Subsequent Work Report

OPERATOR HARRIS-ROGALSKE FIELD LOS ANGELES

Well No. ____, Sec. ____, T. ____, R. ____, ____ B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all **work done on the well since the previous record,** dated MAY 2-1941 ____, **was filed.**

SIGNED HARRIS ROGALSKE

Date MAY 6-1941 Title CONTRACTOR
(President, Secretary or Agent)

Outline in the order of performance, **together with the dates thereof,** all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

RECORDS - NONE AVABILE
WELL AT 418 NORTH FERNANDO ST ON PROPERTY OWNED BY MARGARETTA FERRARO — THIS WELL IS UNDER DRIVEWAY - CONDEMED BY L.A.F.D.

SHOT 4 INCH LINER AT ~~660~~ 666 FEET WITH 4 STKS 40% DYNAMITE PULLED 666 FT 4" STANDARD PIPE

CEMENTED WITH 10 SK CEMENT AND 5 SK SAND. WHICH MADE A 27 FT PLUG. WITNISED BY INSPECTOR 5-2-41

INSPECTOR TESTED PLUG 5-3-41 - FILLED HOLE TO 50' FROM SURFACE WITH SAND AND MUD - PUDDLED WITH WATER - 1 C.U. YD CONST CEMENT FOR L.A.F.D. APR 28 FT PLUG - 6 FT BELOW SURFACE

H ROGALSKE
CONTRACTOR

FORM 109-D.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-39470

Los Angeles, Calif. May 15, 1941.

Mr. H. Rogalske,
Los Angeles, Calif.

~~Agent for~~ HARRIS ROGALSKE, CONTRACTOR

DEAR SIR:

Operations at your well No. 1-1/ located at 418 North Firmin St. Sec. ____, T. ____, R. ____, ____ B. & M., Los Angeles City Field, in Los Angeles County, were witnessed by C. V. Bloom, Engineer, representative of the supervisor, on May 3, 1941. There was also present H. Rogalske and George Sampson, Contractors

Casing Record	Junk
4" casing hanging at 611', probably packed to larger casing at 611'; 4" shot and pulled from 606'. T. D. ?? plugged with cement 572'-545'.	None known

The operations were performed for the purpose of testing the location and hardness of a cement plug placed from 572' to 545' in the process of abandonment,

and the data and conclusions are as follows:

THE ENGINEER WAS PRESENT AT THE WELL FROM 8:00 to 8:45 A. M. MAY 2, 1941, AND NOTED THE FOLLOWING:

1. The hole was open to 697'.
2. The shoe of the 4" casing was located with a feeler at 611'.
3. The 4" casing could not be pulled up with the pulling machine.
4. The 4" casing was shot with 4 sticks of 40% dynamite at 606' and came loose.

THE ENGINEER WAS AGAIN PRESENT AT THE WELL FROM 2:00 to 3:45 P. M. ON MAY 2, 1941, AND MR. ROGALSKE REPORTED THAT 606' of the 4" casing was pulled out of the hole.

THE ENGINEER NOTED THE FOLLOWING:

1. The hole was open to 618' with a 3" feeler.
2. A 7" feeler stopped at 600'.
3. Dirt was shovelled in to fill the hole to 572'. This plug did not wash out when water was run into the hole.
4. About 1 cubic foot of bricks and rocks was dumped at 572'.
5. Four sacks of sand and 8 sacks of cement was dumped at 472'.

THE ENGINEER WAS AGAIN PRESENT AT THE WELL FROM 8:00 to 8:30 A. M. MAY 3 and noted that the top of the cement plug was at 545'.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 545' ARE APPROVED.

cc- H. Rogalske
CVB:G

R. D. BUSH
State Oil and Gas Supervisor

By E. Huguenin Deputy

FORM 111.
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-36301

Los Angeles, Calif. May 2, 1941.

Mr. Harris Rogalske,
Los Angeles, Calif.

~~Agent for~~ HARRIS ROGALSKE, CONTRACTOR.

121

Dear Sir:

Your proposal to abandon Well No. 1 - Located at 418 North Firmin St.
Section ____, T. ____, R. ____, B. & M., Los Angeles City Field, Los Angeles County,
dated May 1, 1941, received May 1, 1941, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: This Division has no records on this well.

THE NOTICE STATES:

"The present condition of the well is as follows:
Built on property and found old abandoned well in Drive Way.
There is no record avabile. There is a 4 inch liner hanging on clamp.
The depth is unknown."

PROPOSAL:

"The proposed work is as follows:
To pull out liner - measure in to determine depth. No csng in well open hole.
Cement with 10 sk cement - 5 sk sand. Fill balance to 25 ft. from surface - Put in 25 ft. plug for L A F D
This well was condemed by L. A. F. D. as it is under Drive Way to Private Garage."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT THIS DIVISION SHALL BE NOTIFIED TO WITNESS the placing of and the location and hardness of the concrete plug. This plug should be placed as deep as possible in the open hole.

NOTE: In approving the above proposal this division does not pass upon your right to enter upon this property, but merely approves the work as conforming to our requirements for abandonment.

NOTE: A complete report in duplicate on our Form 102, should be filed with this division after the completion of the above work.

cc- Harris Rogalske
CVB:OH
cl/ant

R. D. BUSH
State Oil and Gas Supervisor

By E. Hugenin Deputy

NO API NO.

FORM 108. 51359 11-37 5M
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
MAY 1 - 1941
LOS ANGELES, CALIFORNIA

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin

HARRIS ROGALSKE Los ANGeles Calif. MAY 1 1941

DIVISION OF OIL AND GAS

Los ANGeles Calif.

In compliance with Section 16, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to abandon well No. 1-1 located at 418 North Firmin st

Sec. ____, T. ____, R. ____, B. & M. Los ANGeles City Field, Los ANGeles County, commencing work on the 2 nD day of MAY 1941.

The present condition of the well is as follows: Built ON Property AND FounD OLD ABANDoneD Well IN Drive WAY THere is No RecorD AVABiLe. THeRe IS A 4 inCH LineH HANGING ON CLAMP THe DepTH IS unKnown

The proposed work is as follows: to Pull out LineH - Measure IN to DeTekmine DepTH. NO CSnG IN WeiL open HoLe Cement With 10SK Cement - 5SK SAND Fill BaLANCe to 25ft FRon SurFACe - Put IN 25 Ft PLuG For LAFD

This well WAS ConDemneD By L.A.F.D. As it is under Drive WAY to PRiVATe GARAGE

Interference to file or case

Maps	Model	Cross section	Cards	Forms 134	Forms 133

Rogalske & Sampson
(Name of Operator)
By Harris Rogalske

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

Information Management
Public Records Unit

Direct Dial (909) 396-3700
Fax:(909) 396-3330

COMPLETION LETTER

May 25, 2017

JAMES JOHNSTON
EFI GLOBAL
5261W. IMPERIAL HWY.
LOS ANGELES, CA 90045

Ref.: CONTROL NO. 90366
Received 5/23/2017

Re: APPL'S, P/O'S, & NOV'S FOR 418, 426 & 430 FIRMIN ST, LOS ANGELES, CA.

After a thorough search of this agency's records:

NO REQUESTED RECORDS WERE FOUND FOR THE ABOVE-REFERENCED FACILITY OR FACILITY SITE.

If you have any questions, please do not hesitate to contact me, Tuesday through Friday, **8:00 a.m**. to **4:30 p.m.**

Sincerely,

LISA RAMOS x3211
For COLLEEN PAINE
Public Records Coordinator

:lr

CITY OF LOS ANGELES
CALIFORNIA

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ASSISTANT DIRECTORS

INDUSTRIAL WASTE MANAGEMENT DIVISION
2714 MEDIA CENTER DRIVE
LOS ANGELES, CA 90065
OFFICE: (323) 342-6200
FAX: (323) 342-6111

22-May-17

James Johnston

EFI Global

5261 W. Imperial Highway,

Los Angeles, CA 90045

INDUSTRIAL WASTEWATER DISCHARGE PERMIT INFORMATION

Your request to research our files for Industrial Wastewater Discharge permit information was done by my staff. Our records show the following findings:

No permit on file for 418, 426, 430 Firmin St., Los Angeles, CA 90026

The cost of generating this report is **$1.00**

Please remit a check in the above amount payable to "Department of Public Works" and mail to:

Bureau of Sanitation

Industrial Waste Management Division

2714 Media Center Drive

Los Angeles, CA 90065

Attn: Admin Inspection Group

If you have any questions, please contact Adrienne Tong of my staff at (323) 342-6062.

Sincerely,

ENRIQUE C. ZALDIVAR, Director

Bureau of Sanitation

By:

Pamela C La Beau, Acting Chief Env. Compliance Inspector II

Industrial Waste Management Division

C: Attachment [ ] yes [X] no

Adrienne Tong

COUNTY OF LOS ANGELES
Public Health

CYNTHIA A. HARDING, M.P.H.
Interim Director

JEFFREY D. GUNZENHAUSER, M.D., M.P.H.
Interim Health Officer

Public Health Investigation Administration
LEOLA MERCADEL
Chief, Public Health Investigation

5555 Ferguson Drive, Suite 120-04
Commerce, California 90022
TEL (323) 890-7801 • FAX (323) 728-0217

www.publichealth.lacounty.gov

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June 06, 2017

EFI GLOBAL
JAMES KYLE JOHNSTON
5261 WEST IMPERIAL HIGHWAY
LOS ANGELES, CA 90045

RE: 418, 426, 430 FIRMIN ST, LOS ANGELES, CA, CA 90026

I, the undersigned, being the Custodian or the Keeper of Records, certify that a thorough search for the records you requested was carried out under my direction and control.

This search revealed no records.

It should be understood that this does not mean that the records you requested do not exist. It is possible that such records may be misfiled; exist under another spelling, another name, or under another classification. However, with the information furnished to our office, and to the best of our knowledge, no records were located.

If you have any questions regarding your request, please contact our office at (323) 890-7806.

Sincerely,

Yvonne Curtis, Deputy Health Officer
Public Health Investigation

COR ID No.173372

Johnston, James

From: Quidilla, Clarita@Waterboards <Clarita.Quidilla@waterboards.ca.gov> on behalf of WB-RB4-PublicRecords <RB4-PublicRecords.RB4-PublicRecords@waterboards.ca.gov>
Sent: Friday, June 02, 2017 11:32 AM
To: Johnston, James
Cc: WB-RB4-PublicRecords
Subject: Public Records Request / Tracking 2017052205

********* Please submit future file review requests to the LARWQCB via e-mail to RB4-publicrecords@waterboards.ca.gov.*********

Thank you for your request to review Regional Board records concerning the property on:

- 418, 426, 430 Firmin Street, Los Angeles, CA 90026

The Regional Board has reviewed its files and has concluded that it does not have any records that are responsive to your request.

Thank you,

Clarita Quidilla
Los Angeles Regional Water Quality Control Board

From: Johnston, James [mailto:James_Johnston@EFIGLOBAL.COM]
Sent: Monday, May 22, 2017 8:09 AM
To: WB-RB4-PublicRecords <RB4-PublicRecords.RB4-PublicRecords@waterboards.ca.gov>
Subject: Public Records Request

Hello,

This firm is performing a Phase I Environmental Site Assessment on a property located at the following addresses:

418, 426, 430 Firmin St., Los Angeles, CA 90026

We are requesting any records in relation to the subject property. Please feel free to contact me with any questions or concerns related to this request at 310-854-6300.

Thank you for your time and consideration in this matter.

Regards,

James Kyle Johnston
Environmental Specialist

EFI Global Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

T 310 854 6300
TF 888 705 6300
F 310 854 0199
M 310 256 0179
E James_Johnston@efiglobal.com

www.efiglobal.com
Assign a Project 24/7: efiglobal.com/Assign-a-Project

CSLB License #: 885902 – A, B, HAZ, ASB



Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr
Governor

May 26, 2017

Mr. James Johnston
EFI Global
5261 W. Imperial Highway
Los Angeles, CA 90045

418, 426 & 430 Firmin Street, Los Angeles, CA 90026
PR3-052217-03

Dear Mr. Johnston:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control.

After a thorough review of our files we have found that no such records exist at this office pertaining to the sites/facilities referenced above.

We would like to inform you about EnviroStor, a database that provides information and documents on over 5,000 DTSC cleanup sites. EnviroStor can be accessed at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view EnviroStor. If you have any questions or would like further information regarding your request, please contact me at (818) 717-6521.

Sincerely,

Robert Hardison

Robert Hardison/bh
Regional Records Coordinator

Printed on Recycled Paper

James Kyle Johnston

Environmental Specialist

5261 West Imperial Highway, Los Angeles, CA 90045

310-854-6300

James_Johnston@efiglobal.com

Professional Summary:

James Kyle Johnston has been in the environmental industry since 2013. Mr. Johnston started his career in the environmental industry conducting hazardous materials inspections with the San Bernardino County Fire Department. Currently, Mr. Johnston conducts historical research and works with regulatory bodies to investigate historical and current uses of properties as part of the Phase I Environmental Site Assessment.

Licenses and Certifications:

OSHA 40-Hour Hazardous Waste Operations 1605121167705

Professional Experience:

Andersen Environmental an EFI Global company, Los Angeles, CA, Environmental Specialist, May 2016 – Present

San Bernardino County Fire Department, San Bernardino, CA, Hazardous Materials Intern 2013

Education:

Bachelor of Arts, Environmental Business, University of Redlands, Redlands, CA, 2014

Affiliations:

United States Green Building Council: 2013 - Present

EFI Global
Engineering, Fire & Environmental Services

Nicole J. Rivera, MS

Phase I Department Manager

5261 West Imperial Highway, Los Angeles, CA 90045 *310-854-6300*

Nicole_Rivera@efiglobal.com

Years' Experience: 10

Professional Summary:

Ms. Rivera has more than 10 years of experience in professional consulting services and meets the definition of an Environmental Professional (EP) as defined in the EPA All Appropriate Inquiry (AAI) regulations. Ms. Rivera's responsibilities include the overall management of the Environmental Due Diligence Phase I Department for EFI Global. Her duties include managing 15 technical staff members, managing client relations, business development, and employee development.

Ms. Rivera has worked directly with clients and regulatory bodies to investigate historical and current site use and assess environmental conditions of various residential, commercial, and light industrial and heavy industrial properties. Her experience includes all stages of environmental projects including Phase I environmental site assessments and Phase II soil testing and sampling. Specializing in high volume and large scale projects, she ensures the production of high quality products and individualized service through effective team management and quality control mechanisms.

Ms. Rivera is currently responsible for:

- Management of Phase I Department (14 technical staff members) that prepares Phase I Environmental Site Assessments typically involving retail, light industrial/warehouse, and industrial properties
- Field activities including soil, vapor, and groundwater sampling for Phase II Investigations including dry cleaning operations, gas stations and industrial facilities
- Communicating with regulatory agencies including DTSC, Los Angeles Regional Water Quality Control Board, Los Angeles County, Los Angeles City, and City of Santa Monica
- Training and education of employees and clients
- Marketing, client relations, business development

Licenses and Certifications:

OSHA 40-Hour Hazardous Waste Operations
California Registered Environmental Assessor (2010-2012), DTSC, CA, #30319
Environmental Professional, per the CFR Title 40, Chapter I, Subchapter J, Part 312, Subpart C, Section 312.21

Project Experience:

Lending Institutions, California
Environmental Site Assessment
Ms. Rivera serves as department manager for lending sector projects which involve Phase I ESA, Property Condition Assessments, Seismic Risk Assessments, and ALTA Surveys for local, regional and national lenders. Projects include adaptive reuse of existing historical other structures for affordable and low income housing and ground up construction projects on previously undeveloped, commercial and industrial properties. Services also include client representation in CEQA and NEPA proceedings and public participation proceedings.

Historic Broadway Corridor, Los Angeles, California
Ms. Rivera conducted environmental due diligence of six private mid-rise buildings in the historic core of downtown Los Angeles on behalf of a major international bank. Hundreds of building permits and other historical research was reviewed and analyzed. Special challenges involved with the project included assessment of boiler related fuel tanks for each of the six properties. Geophysical methods and soil sampling was conducted in order to determine if the boiler related fuel tanks had leaked and caused the subsurface soils to be contaminated.

Affordable Housing Projects, Throughout California
Phase I Environmental Site Assessment Reports were conducted for various properties throughout the state of California for public agencies and private entities as potential sites for affordable housing projects. Special challenges involved with specific projects included soil sampling and pesticide testing for properties that were historically utilized for agricultural purposes.

Gas Station Projects, Throughout California
Phase I Environmental Site Assessment Reports were conducted for gasoline service station properties throughout the state of California for lenders and private entities. Special challenges involved with specific projects included obtaining and reviewing tank fitness testing reports to comply with lender requirements and reviewing technical documents relating to prior UST removals, environmental sampling, remediation, and closure proceedings.

Public and Charter Elementary School Projects, Throughout California
Ms. Rivera has overseen the preparation of Phase I ESA reports for various public and charter elementary schools throughout the state of California for lenders and private entities.

Professional Experience:

Andersen Environmental, Los Angeles, CA 2007-Present
Phase I Department Manager, 2010-Present
Project Manager, 2008-2010
Senior Environmental Specialist, 2007-2008

Education:

Bachelor of Science, Environmental Studies, University of Southern California, Los Angeles, CA, 2006

Master of Science, Environmental and Occupational Health, California State University of Northridge, Northridge, CA, 2013

References:

Cynthia Wagner
MUFG Union Bank, N.A.
500 S. Main Street, Suite 320
Orange, CA 92868

Georgina Dannatt
Bank of the West
2527 Camino Ramon,
San Ramon, CA 94583

Jean Hughes
California Bank and Trust
2399 Gateway Oaks, Suite 110
Sacramento, CA 95833

Richard Belyea
Comerica Bank
611 Anton Boulevard, Suite 400
Costa Mesa, CA 92626

EFI Global

Engineering, Fire & Environmental Services

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

Performed at:

418, 426 and 430 Firmin Street
Los Angeles, California 90026
APNs: 5160-022-006, 5160-022-007,
and 5160-022-012

Prepared for:

The Decro Group
400 Corporate Pointe, Suite 300
Culver City, CA 90230

EFI Global Project No. 9836002796

November 9, 2017

5261 West Imperial Highway, Los Angeles, California 90045
Toll Free: 888-705-6300 Phone: 310-854-6300 Fax: 310-854-0199 Web: www.AndersenEnviro.com

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Appendix A Geophysical Survey Report
Appendix B Boring Logs with Borehole Completion Diagrams
Appendix C Laboratory Reports and Chain-of-Custody Documentation

1.0 INTRODUCTION

EFI Global has performed a Phase II Environmental Site Assessment (ESA) for the property located at 418, 426 and 430 Firmin Street in Los Angeles, California (the Site). The assessment was based on the findings of EFI Global's Phase I ESA (dated June 9, 2017) performed at the Site, which identified a recognized environmental condition (REC) associated with the property. Specifically, the Site and the surrounding area were historically utilized for oil production operations. According to information presented in the California Division of Oil, Gas and Geothermal Resources (DOGGR) Well Finder online database, several wells are depicted within the boundaries or near the boundaries of the Site, however, the exact location of wells depicted on the DOGGR website often vary. Information regarding the exact location of these wells and well abandonment was not obtained during the Phase I ESA. The potential presence of on-site oil wells could not be ruled out. The former oil production activities on the Site represented a REC for the Site due to common practices associated oil exploration and production activities. During the drilling of wells, a large volume of drilling cuttings is generated, which are typically deposited into nearby excavation pits. In addition, surficial releases can occur during drilling activities.

EFI Global conducted this Phase II ESA to evaluate whether the former Site operations have significantly impacted the subsurface of the Site. A geophysical survey was conducted in an attempt to locate any potential on-site former oil wells. Six borings were advanced throughout the property, and select soil samples were collected and analyzed. Contaminants of potential concern included Title-22 metals, petroleum hydrocarbons, and VOCs in soil.

2.0 SITE INFORMATION

This section provides pertinent Site information, including the location, description and the geologic and hydrogeologic settings.

2.1 SITE LOCATION AND DESCRIPTION

The Site is located on the southeast side of Firmin Street, approximately 95 feet south of West Temple Street in the City of Los Angeles. The Site is comprised of three contiguous parcels and is approximately 0.4 total acre in total size. The north and the south parcels (418 and 430 Firmin Street, respectively) each are developed with a residential structure and a garage that are 2,820 total square feet in size. The center parcel (426 Firmin Street) consists of vacant land. The surrounding area is used for residential and commercial purposes.

It is EFI Global's understanding that the Site is proposed for residential redevelopment. Given the intended end-use of the Site, it is appropriate to evaluate the Site under a residential scenario.

2.2 REGIONAL GEOLOGIC AND HYDROGEOLOGIC SETTING

The Site is located in the Los Angeles Basin, which is a part of the Peninsular Range geologic province, between the Pacific Ocean and the Inglewood-Newport Fault Zone. The Peninsular Range province, which is characterized by northwest-trending topographic and structural features, is bound by the Transverse Range province to the north and the Colorado Desert Province to the east. The inland part of the Peninsular Range province consists of numerous mountain ranges that are composed predominantly of igneous and metamorphic rocks of Mesozoic and Paleozoic age. An irregular coastal plain is located on the western edge of the province (including the Los Angeles Coastal Plain and Basin), which is composed predominantly of marine and non-marine clastic deposits of Upper Cretaceous, Tertiary and Quaternary age.

The Site is underlain with unnamed Tertiary-aged shale of Miocene age that is typically described as gray to light brown, thin-bedded silty clay shale which is soft and crumbly and locally contains scattered hard calcareous nodules (*Geologic Map of the Hollywood and Burbank Quadrangles*, USGS, 1991 and *Geologic Map of the Los Angeles Quadrangle*, USGS, 1991).

2.3 LOCAL GEOLOGIC AND HYDROGEOLOGIC SETTING

The elevation of the Site is approximately 440 feet above mean sea level (USGS Hollywood, California 7.5 minute topographic quadrangle; Figure 1). Based on a review of the GeoCheck Section of the EDR Radius report obtained as part of the Phase I ESA, the Site is not situated within a 100-year FEMA Flood Zone. No wetlands were identified at the property or adjoining/immediately surrounding properties.

Subsurface investigations at the Site have been conducted to a maximum exploration depth of 25 feet below ground surface (bgs). Soils encountered during this investigation consisted primarily of clayey silts, silts, and sandy silts extending to the maximum exploration depth.

Based on a review of groundwater data presented in the State Water Resources Control Board (SWRCB) GeoTracker website, groundwater was detected at a closed leaking underground storage tank site (108 North Fremont Avenue) located approximately 0.47 mile east of the Site at depths between approximately 12 to 20 feet bgs (*Groundwater Monitoring Well Monitoring and Sampling Report – First Half 2011 and Request for No Further Action*, Frey Environmental, Inc., August 8, 2011). However, the Site is located on a hill that is approximately 20 feet above surrounding grade. Therefore, EFI Global expects groundwater below the Site to be encountered at depths between 30 and 40 feet bgs. Based on regional groundwater data, regional groundwater flow direction is estimated to be to the south; however, local groundwater flow direction may vary.

3.0 FIELD ACTIVITIES

All field activities pertaining to the Phase II ESA were completed on October 4, 2017.

3.1 FIELD PREPARATION

Prior to conducting field activities, EFI Global personnel marked the work area clearly with white paint. Underground Services Alert (USA) was notified of the pending fieldwork a minimum of 48 hours before mobilization. Boring locations were subsequently checked for utility conflicts, access limitations and other hindrances or issues which may have been encountered during fieldwork. No conflicts with utilities were identified in the chosen boring locations.

3.2 GEOPHYSICAL SURVEY

On October 4, 2017, EFI Global field personnel directed Ground Penetrating Radar Systems, Inc. (SSS) in performing a geophysical survey at the Site.

3.2.1 OBJECTIVES AND METHODOLOGY

The objectives of the geophysical survey were:

- Scan accessible portions of the Site to the extent possible, in an attempt to locate current or former oil wells; and
- Clear borehole locations of underground utilities.

The geophysical survey was conducted through the use of ground penetrating radar (GPR) equipment, electromagnetics (EM) and various utility line tracers. GPR uses electromagnetic pulses broadcasted into the ground that reflect back to an antenna located at the surface at different rates (depending on depth and

materials encountered). GPR equipment was utilized to scan most of areas of the Site. EM uses a primary magnetic field which induces an electrical current into soils. These primary induced currents interact with secondary magnetic fields in the earth, and the characteristics of this secondary magnetic field can be interpreted to reveal metallic features in the subsurface. EM was primarily used to scan the center parcel (726 Firmin Street). The remaining portions of the Site were not scanned with EM due to interference from the existing structures.

3.2.2 GEOPHYSICAL SURVEY RESULTS

Results of the geophysical survey are summarized as follows:

- GPR and EM equipment identified an anomaly at approximately 4 feet bgs near the south corner of the 426 Firmin Street parcel. The location of this anomaly coincides with the location of an oil well (API: 03725669) depicted in the DOGGR Well Finder online database. Information regarding well abandonment was not identified as part of the Phase I ESA. Based on the age of the surrounding Los Angeles Oil Field, the onsite well was likely abandoned prior to the development of strict regulatory protocol.
- To the extent practicable, no other evidence of oil wells was identified in the surveyed areas. However, it should be noted that geophysical surveying near buildings, metal fences, or reinforced concrete may or may not be conclusive in identifying anomalies due to inherent limitation of the technologies and severe interference of structural components. Therefore, it cannot be stated with certainty that no other oil wells are presence beneath the property at this time.

The GPRS geophysical report is included as Appendix A.

3.3 SOIL SAMPLING

On October 4, 2017, EFI Global field personnel directed the advancement of six borings at the site (B1 through B6; Figure 2) to assess subsurface conditions.

3.3.1 BORING LOCATIONS AND INVESTIGATIVE OBJECTIVES

Boring locations, sampling depths and investigative rational were as follows:

Boring ID	Location and Investigative Objectives	Terminal Depth (ft bgs)	Sampling Depths (ft bgs)
B1	Southeast portion of the 430 Firmin Street parcel to assess for impacts from the suspected oil well in the east adjacent site.	20	2, 5, 10, 15, 20
B2	South portion of the 418 Firmin Street parcel to assess for impacts from the suspected oil well located in this portion of the Site.	25	2, 5, 10, 15, 20, 25
B3	Southeast portion of the 426 Firmin Street parcel to assess for impacts from the suspected oil well located in the east adjacent site.	20	2, 5, 10, 15, 20
B4	South portion of the 426 Firmin Street parcel to assess for impacts from the suspected oil well located in this portion of the Site identified by the geophysical survey.	20	2, 5, 10, 15, 20
B5	Central portion of the 426 Firmin Street parcel to assess for impacts from the suspected oil well located in this portion of the Site.	20	2, 5, 10, 15, 20
B6	North corner of 430 Firmin Street parcel to assess for impacts from the suspected oil well in the north adjacent site.	15	2, 5, 10, 15

Borings B1 and B3 were advanced in the most accessible areas that were closest to the location of the suspected oil well in the east adjacent property. EFI Global was unable to access areas closer to the property line due to the presence of a beehive at the Site.

In location B6, refusal due to lithologic conditions was encountered at 15 feet bgs and the target depth of 20 feet bgs was not sampled. Based on the analytical results from the analyzed samples collected from this location, this limitation is not expected to significantly alter the findings of this report.

BOREHOLE ADVANCEMENT AND SAMPLING METHODOLOGY

Borings were advanced using a hydraulic direct-push technology (DPT) drill rig equipped with a 1.5-inch drive rod. In each location, the DPT rig was initially used to break through surface cover. Soil samples were collected at the designated sampling depths above by advancing an acetate-lined steel sampler to each sampling depth. At the selected sample depth, approximately 6-inch segments of undisturbed soil within the acetate liners were cut, sealed with Teflon® tape and tight-fitting plastic caps, logged in accordance with the Unified Soil Classification System (USCS) and observed for color, moisture content, texture, discoloration, odor and physical evidence of contaminant impact or fill material. The samples were labeled, recorded in a chain-of-custody and chilled pending transportation and submittal to Positive Lab Service (Positive) of Los Angeles, California, a State-certified analytical laboratory. Chain-of-custody documentation and protocol were maintained during sample collection through submittal to the analytical laboratory.

Each sample was additionally field-screened for VOCs by headspace analysis using a photoionization detector (PID). A portion of the recovered sample was placed in a plastic bag and sealed to allow organic vapors to volatilize, at which point the PID probe tip was inserted into the bag and the maximum reading observed and recorded.

3.3.2 ENCOUNTERED SOIL TYPES

Soils encountered during this assessment were generally classified as intermittent beds of clayey silt (USCS soil type classification "ML"), silt with trace clay (SM), sandy silt (ML), and silty clay (CL); medium dark brown; hard; non-plastic to low plasticity. No groundwater was encountered during this assessment. Boring logs with borehole completion diagrams are included as Appendix B.

Evidence of contamination, including elevated PID readings [ranging from 35.1 parts per million (ppm) to 1,251 ppm], hydrocarbon odors, and gray discoloration were identified in locations B2 at depths between 2 to 25 feet bgs, in B3 at depths between 10 to 20 feet bgs, and B4 at depths between 10 to 15 feet bgs. Select samples with evidence of contamination identified in during sampling were submitted for laboratory analysis. The samples selected for chemical analysis and analytical results are discussed in Sections 4.0 and 5.0, respectively.

4.0 CHEMICAL ANALYSIS

Soil chemical analysis was analyzed by Positive Lab Service of Los Angeles, California. Laboratory reports and chain-of-custody documentation are provided as Appendix C.

Based on evidence of contamination identified in soil during sampling, the following soil samples were submitted for Title-22 metals analysis by EPA Methods 6010B/7471A and Total Petroleum Hydrocarbons, carbon chain (TPHcc) analysis by 8015M:

- The 2-foot sample from boring B1
- The 2- and 25-foot sample from boring B2
- The 10- and 20-foot samples from boring B3
- The 10- and 15-foot samples from boring B4
- The 15-foot sample from boring B5
- The 5-foot sample from boring B6

The maximum PID reading during sampling was detected in sample B2-S-2 at a concentration of 1,251 ppm. The elevated PID detection indicates the potential presence of volatile organic compounds in soil. Therefore, B2-S-2 was selected for analysis of VOCs by EPA Method 8260B.

5.0 ANALYTICAL RESULTS

This section presents chemical analytical results of soil and soil vapor analysis.

5.1 SOIL ANALYTICAL RESULTS

The section presents analytical results for soil chemical analysis. Select soil samples were analyzed for Title-22 metals, TPHcc and VOCs.

5.1.1 TITLE-22 METALS IN SOIL

A summary of Title-22 Metals analytical results in soil is presented in Table 1. Metals in soils were compared to DTSC-SLs established in Department of Toxic Substances Control-modified Screening Levels (DTSC-SLs) established in DTSC's Human Health Risk Assessment (HHRA) Note 3 (August 2017 update) to evaluate if the concentrations represented a significant risk to human receptors. For metals having no established DTSC-SLs, Regional Screening Levels (RSLs), as established by the U.S. Environmental Protection Agency (June 2017 update), were used.

In general, exposure to contaminants in soil through dermal contact, inhalation of particulate matter and ingestion may pose risks to human health (including cancer and non-cancer risks). DTSC-SLs have been developed, using default exposure and toxicity criteria, to provide conservative screening levels whereby concentrations of contaminants below such levels are not considered to represent a significant risk to human receptors.

Detected compounds were evaluated against a residential scenario. With the exception of arsenic and chromium, all compounds were below the commercial/industrial screening levels.

Arsenic was detected in all soil samples analyzed at concentrations from 3.53 micrograms per kilogram (mg/kg) in sample B5-S-15 to 12.7 mg/kg in sample B3-S-20. The residential DTSC-SL is 0.11 mg/kg; however it is well documented that natural background concentrations of arsenic in California soils commonly exceed this screening criterion. In the document titled *Determination of a Southern California Regional Background Arsenic Concentration in Soil* (Chernoff, et al., 2008), which was prepared by DTSC staff, the authors concluded, "A Probability Plot and statistical analysis of a large data set from school sites in Los Angeles County gave an upper-bound arsenic concentration of 12 mg/kg. A Probability Plot for school sites from 5 counties in Southern California also gave an upper-bound background arsenic concentration of 12 mg/kg." They also stated, "This finding suggests that 12 mg/kg [may be] a useful screening number for evaluating arsenic as a chemical of potential concern." Only one detected concentration of arsenic exceeded 12 mg/kg (12.7 mg/kg in sample B3-S-20). However, the exceedance is marginal and was detected at a depth of 20 feet bgs. Based on the depth of the exceedance, there is no exposure pathway to current or future residential property occupants. All other detections of arsenic were below 12 mg/kg. Therefore, arsenic detections are not of significant concern.

Total chromium was detected in both soil samples analyzed at concentrations of 22.8 mg/kg (B5-SV-3) and 27.2 mg/kg (B9-SV-3). There is no DTSC-SL or RSL established for total chromium; however it is well understood that elevated background soil concentrations of chromium are present due to local geology. A study conducted at 14 Air Force installations in California (*Inorganic Chemicals in Ground Water and Soil: Background Concentrations at California Air Force Bases*, Hunter, et al., 2005) determined that the 95th percentile of total chromium concentration, considered good representations of background concentrations, is 100.0 mg/kg. The detected concentration of chromium at the Site is significantly less. Therefore, this detection is considered to be background and not of concern.

5.1.2 PETROLEUM HYDROCARBONS IN SOIL

Analytical results for TPH in soil are summarized in Table 2. In general, contaminants in soil (i.e., secondary sources) have the potential for vertical migration into groundwater bodies farther below grade. Lithologic structures between the impacted soil and the groundwater table often serve as attenuating features, which may restrict or retard vertical migration to concentrations that do not represent significant risks to groundwater. To evaluate if the TPH-g concentrations detected in soil samples from the Site represent a significant risk to groundwater quality, the concentrations were compared to the Maximum Soil Screening Levels (MSSLs) established by the Los Angeles Regional Water Quality Control Board (LARWQCB) in their *Interim Site Assessment and Cleanup Guidebook* (Guidebook, May 1996).

Site-specific MSSLs are determined based on the vertical distance between the impacted soil and groundwater. The deepest detected TPH impact at the Site was in the 25-foot soil samples, which were the deepest samples analyzed for TPH. First-encountered groundwater is expected to be at approximately 30 to 40 feet bgs. Therefore, the distance between soil with known TPH impacts and groundwater is approximately 5 to 15 feet. The MSSL that applies to the analytical results, then, is the MSSL for sites where the distance between soil impact and groundwater is less than 20 feet. For this scenario, the MSSLs for TPH-g, TPH-d, and TPH-o are 100 mg/kg, 100 mg/kg, and 1,000 mg/kg, respectively. Results are summarized as follows:

- TPH as gasoline (TPH-g, carbon range C4-C12) was detected in six of eight soil samples analyzed at concentrations ranging between 14.0 mg/kg in B2-S-25 to 11,500 mg/kg in B3-S-10. Four of the six detections of TPH-g exceeded the MSSL of 100 mg/kg.

- TPH as diesel (TPH-d, carbon range C13-C22) was detected in seven of eight soil samples analyzed at concentrations ranging between 21.3 mg/kg in B5-S-15 to 7,520 mg/kg in B3-S-20. Six of the seven detections of TPH-d exceeded the MSSL of 100 mg/kg.
- TPH as oil (TPH-o, carbon range C23-C36) was detected in 7 of 8 soil samples analyzed at concentrations ranging between 135 mg/kg in B5-S-15 to 4,560 mg/kg in B2-S-25. Only one detected concentration exceeded the MSSL of 1,000 mg/kg.

Based on the exceedances of TPH-g, TPH-d, and TPH-o above MSSLs, a potential threat to groundwater cannot be ruled out.

5.1.3 VOLATILE ORGANIC COMPOUNDS IN SOIL

Analytical results for VOCs in soil are summarized in Table 1. The 2-foot sample from boring B2 was analyzed for VOCs based on PID detections observed during sampling. A total of seven VOC constituents were detected in the analyzed soil sample. These constituents were benzene, ethylbenzene, isopropylbenzene, n-propylbenzene, tert-butylbenzene, sec-butylbenzene, and tert-butyl alcohol (TBA).

Human receptors may be exposed to contaminants in soil through dermal contact, inhalation of particulate matter, and ingestion. To evaluate if the detected contaminants represent a significant risk to human receptors, the concentrations of VOCs in soil were compared to DTSC-SLs. For compounds that have screening criteria listed in Note 3, the DTSC-SLs are used instead of RSLs. Applicable screening levels are shown on Table 1. The following exceedances were noted:

- Benzene was detected at a concentration of 3.21 micrograms per kilogram (µg/kg). The detected concentration of benzene exceeded the residential DTSC-SL for benzene of 0.33 µg/kg.
- Ethylbenzene was detected at a concentration of 8.02 µg/kg. The detected concentration of ethylbenzene exceeded the RSL for ethylbenzene of 5.8 µg/kg.

The detected concentrations of isopropylbenzene, n-propylbenzene, tert-butylbenzene, or sec-butylbenzene did not exceed their respective residential DTSC-SLs or RSLs. There is no established screening level for TBA. However, in EFI Global's experience, TBA is not typically a driver in environmental cleanup or response. The exceedances of benzene and ethylbenzene indicate that a potential risk to site occupants through human receptors cannot be ruled out.

6.0 CONCLUSIONS AND RECOMMENDATIONS

EFI Global has performed a Phase II ESA for the residential property located at 418, 426 and 430 Firmin Street in Los Angeles, California. This assessment was based on the findings of EFI Global's Phase I ESA dated June 9, 2017, which reported that the Site and the surrounding area were historically utilized for oil production operations.

EFI Global conducted a geophysical survey in select areas of the Site and advanced six borings (B1 through B6) in an attempt to evaluate if historical operations have significantly impacted the subsurface:

- The geophysical survey identified an anomaly near the south corner of the 426 Firmin Street parcel, which coincides with the location of an oil well (API: 03725669) depicted in the DOGGR Well Finder online database.
- Analytical results for Title-22 metals in soil indicate the presence of metals within background concentrations or concentrations below human-health regulatory guidelines. The only exceedance was the detection of arsenic in sample B3-S-20 (12.7 mg/kg), which marginally exceeded the established screening level of 12 mg/kg. However, this concentration was detected at a depth of 20 feet bgs. Shallower samples indicated lower concentrations of arsenic. Based on

the depth of the exceedance, there is no exposure pathway to current or future residential property occupants. Therefore, metals in soil do not appear to be of significant concern at the Site.

- TPH-g, TPH-d, and TPH-o were detected at maximum concentrations of 11,500 mg/kg, 7,520 mg/kg, and 4,560 mg/kg, respectively. Several detected concentrations exceeded the MSSLs for TPH-g, TPH-d, and TPH-o of 100 mg/kg, 100 mg/kg, and 1,000 mg/kg, respectively. Based on the exceedances, a potential threat to groundwater cannot be ruled out.
- Based on elevated PID readings observed during soil sampling, one soil sample (B2-S-2) was analyzed for VOCs. Benzene and ethylbenzene were detected at concentrations of 3.21 µg/kg and 8.02 µg/kg, respectively. These concentrations exceeded the DTSC-SLs for benzene (0.33 µg/kg) and ethylbenzene (5.8 µg/kg). Therefore, a potential risk to site occupants through human receptors cannot be ruled out.

The following are EFI Global's recommendations based on the results of the assessment activities detailed herein:

- EFI Global recommends that the suspected oil well identified during this investigation and any other oil wells potentially identified during redevelopment activities be properly abandoned in accordance with all state and local guidelines.
- EFI Global recommends additional soil sampling to further characterize the TPH and VOC concentrations detected in soil during this investigation. In addition, EFI Global recommends groundwater sampling to assess whether the concentrations of TPH and VOCs detected in soil have impacted shallow groundwater. Furthermore, soil vapor sampling at the Site is warranted to assess for a potential vapor intrusion risk within future residential structures. Finally, engaging the Los Angeles County Fire Department in voluntary oversight should be considered in order to obtain a No Further Action letter following satisfactory completion of their requirements.

7.0 SIGNIFICANT ASSUMPTIONS, LIMITATIONS AND RELIANCE

This report has been prepared in accordance with generally-accepted environmental methodologies and industry standards as they relate to the Data Quality Objectives of the assessment. No warranties, expressed or implied, are made as to the professional services provided under the terms of EFI Global's contract(s) or specified in this report. This assessment has been conducted, in part, based on information, data or reports provided or prepared by others. EFI Global reviews and interprets these documents in good faith and relies that the provided data and documents are true and accurate.

Environmental conditions at the site were assessed or interpreted within the context of EFI Global's contract(s) and existing environmental regulations of applicable jurisdiction(s) as of the date of the report. Regulatory requirements, regulations and guidance are subject to change subsequent to the date of the report. Unless otherwise stated in the report, evaluating compliance of past, present or future owners with applicable local, provincial and federal government laws and regulations was not included within the scope of the assessment.

The environmental assessment is limited by the availability of information at the time of the assessment. The conclusions and recommendations regarding environmental conditions presented in this report are based on a scope of work authorized by the Client. It is possible that unreported conditions impairing the environmental status of the site may have occurred which could not be identified. EFI Global's opinions cannot be extended to portions of the site that were unavailable for direct access and observation reasonably beyond the control of EFI Global or outside of the scope of the assessment. Environmental assessment activities, particularly the sampling of soil, vapor (air), groundwater and structure materials, represent those conditions which are present at the time of sampling within the immediate vicinity of the sample(s) collected. Although sampling plans are developed in an attempt to provide what is interpreted as sufficient coverage within the assessment area to achieve the investigative objectives, no extent of sampling can guarantee all environmental conditions, potential chemicals of concern (man-made or naturally occurring) and concentrations at which they occur have been identified and quantified absolutely. The assessment performed and outlined in this report was based, in part, upon visual observations of the site and attendant structures. It should be noted that compounds, materials or chemicals of potential concern other than those described could be present in the site environment, and the possibility remains that unexpected environmental conditions may be encountered at the site in locations not specifically investigated.

All components of this report, including but not limited to text, signatures, certifications, figures, tables, attachments, appendices, supporting documents and addenda are integral to the reporting of the assessment. This report may not be reproduced, except in full, without written approval of EFI Global.

This report has been prepared for the sole use of The Decro Group. The contents should not be relied upon by any other parties without the express written consent of The Decro Group and EFI Global.

8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

This assessment has been conducted with the standards and level of care and skill exercised in such types of investigations, by qualified geologists, engineers, environmental scientists or environmental professionals, in conformance with generally-accepted industry standards and practices.

Prepared by: Date: November 9, 2017

Desi Salgado
Project Manager

Reviewed and approved by: Date: November 9, 2017



Brian Martasin
Professional Geologist No. 8356
Principal Geologist

FIGURES

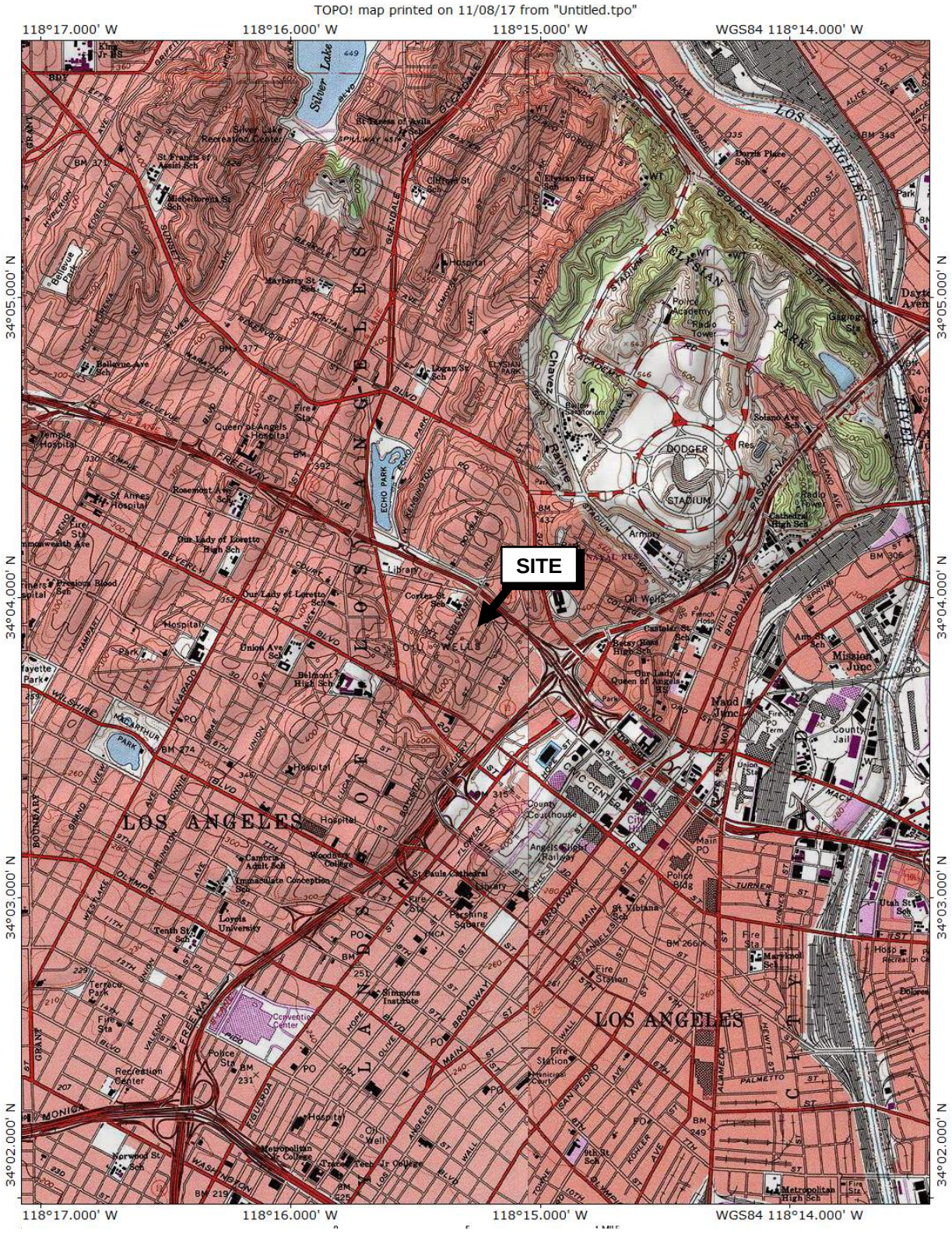


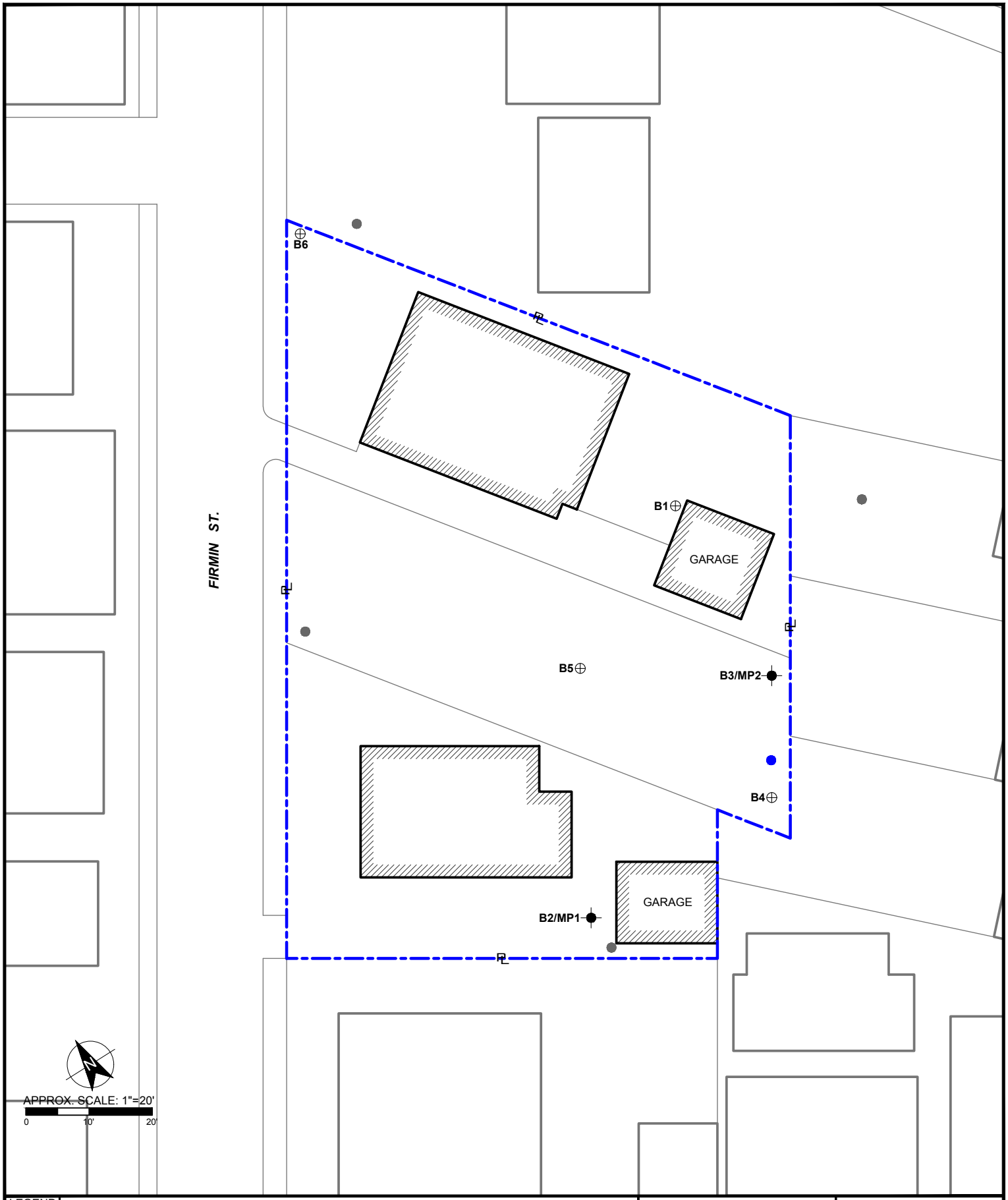
Figure 1
Site Location Map

418, 426, and 430 Firmin Street
Los Angeles, California 90026

Source:
USGS Hollywood, CA 7.5 Minute
Topographic Map (1994)

Project Number: 9836002796

EFI Global
Engineering, Fire & Environmental Services



LEGEND

- PROPERTY LINE
- SUBJECT STRUCTURE
- B6 SOIL BORING LOCATION
- B3/MP2 SOIL BORING & METHANE PROBE LOCATION
- SUSPECTED OIL WELL LOCATION (DOGGR & GEOPHYSICAL)
- SUSPECTED OIL WELL LOCATION (DOGGR ONLY)

SITE PLAN

418, 426 & 430 FIRMIN ST.
LOS ANGELES, CA 90026

EFI Global

PN:9836002796	FIGURE 2
DT: 11/9/2017	
DB: JE	CB: DS

\\aefs02\current\AE 2017\Projects 2017\98360 Projects 2017\9836002796_418 426 & 430 Firmin St LA CA 90026\05 9836002796_Reports\YYYY-MM PII Rpt\02 CAD\9836002796_SitePlan

TABLES

Table 1: Title-22 Metals in Soil
Proposed or Future Residential Property
418, 426, and 430 Firmin Street, Los Angeles, California 90026

Sample ID	Sample Date	Sample Depth (ft bgs)	EPA Method 6010B/7471A (mg/kg)																
			Antimony	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Arsenic	Barium	Beryllium	Cadmium	Chromium[1]	Cobalt	Copper	Lead	Mercury
B1-S-2	10/04/17	2	ND	2.53	33.0	ND	ND	ND	47.0	106	**10.9**	283	ND	ND	**20.1**	14.0	34.8	54.0	0.131
B2-S-2	10/04/17	2	ND	ND	19.8	ND	ND	ND	31.7	39.8	**6.84**	310	ND	ND	**15.7**	10.1	21.7	8.67	ND
B2-S-25	10/04/17	25	ND	3.13	29.1	2.03	ND	ND	48.0	65.9	**9.28**	202	ND	1.08	**25.8**	10.7	34.1	6.29	0.114
B3-S-10	10/04/17	10	ND	1.27	13.0	ND	ND	ND	38.5	51.6	**5.58**	146	ND	ND	**19.4**	9.1	20.9	9.14	ND
B3-S-20	10/04/17	20	ND	12.7	37.1	ND	ND	ND	41.0	66.5	**12.7**	171	ND	1.10	**21.3**	12.0	26.2	5.33	ND
B4-S-10	10/04/17	10	ND	1.43	27.1	ND	ND	ND	32.9	65.5	**5.94**	259	ND	1.72	**16.8**	9.35	34.3	5.32	0.100
B5-S-15	10/04/17	15	ND	5.40	7.90	ND	ND	ND	30.2	34.1	**3.53**	188	ND	ND	**17.9**	5.39	13.1	7.70	0.117
B6-S-5	10/04/17	5	ND	3.13	29.10	2.03	ND	ND	48.0	65.9	**9.28**	202	ND	1.08	**25.8**	10.7	34.1	6.29	65.9
DTSC-SL			**31***	**390***	**15,000**	**390***	**390***	**0.78***	**390***	**23,000***	**0.11[2]**	**15,000***	**1,600**	**5.2**	**6.3[3]**	**23***	**3,100***	**80**	**1.0**

Notes:

1 = Total chromium; See text for discussion of alternate screening levels established for total chromium to hexavalent chromium ratios.

2 = It is commonly understood and well documented that natural background concentrations of arsenic in soils are often well above the DTSC-SL. See report discussion for alternate screening levels

3 = RSL for hexavalent chromium (CR-VI) tabulated; see report text for discussion of total chromium to hexavalent chromium relationships.

EPA = United States Environmental Protection Agency

mg/kg = milligrams per kilogram

ft bgs = feet below ground surface

DTSC-SL = Department of Toxic Substances Control Screening Level for Residential Soil [Human and Ecological Risk Office (HERO); HHRA Note 3, August 2017]

RSL = Regional Screening Level (EPA, June 2017)

ND = Not Detected above laboratory detection limit

* = Compound has no established DTSC-SL, Residential RSLs were used

Detections in bold exceed Commercial DTSC-SLs / RSLs

Table 2: Total Petroleum Hydrocarbons in Soil
Proposed or Future Residential Property
418, 426, 430 and Firmin Street, Los Angeles, California 90026

Sample ID	Sample Date	Sample Depth (ft bgs)	EPA Method 8015M (mg/kg)		
			TPH-g (C4 - C12)	TPH-d (C13 - C22)	TPH-o (C23 - C36)
B1-S-2	10/04/17	2	44.0	**439**	147
B2-S-2	10/04/17	2	**5,790**	**4,620**	341
B2-S-25	10/04/17	25	14.0	**3,160**	**3,560**
B3-S-10	10/04/17	10	**11,500**	**7,260**	348
B3-S-20	10/04/17	20	**6,680**	**7,520**	375
B4-S-10	10/04/17	10	**3,040**	**2,770**	300
B5-S-15	10/04/17	15	ND	21.3	135
B6-S-5	10/04/17	5	ND	ND	ND
MSSL			**100**	**100**	**1,000**

Notes:
ft bgs = feet below ground surface
EPA = United States Environmental Protection Agency
TPH = total petroleum hydrocarbons
mg/kg = milligrams per kilogram
TPH-g = total petroleum hydrocarbons as gasoline
TPH-d = total petroleum hydrocarbons as diesel
TPH-o = total petroleum hydrocarbons as oil
ND = not detected above laboratory reporting limit
Concentrations shown in **bold** exceed MSSLs
MSSL = Maximum Soil Screening Level (Los Angeles Regional Water Quality Control Board, May 1996 Guidebook)
MSSLs for TPH are based on a distance to groundwater of less than 20 feet.

Table 3: Volatile Organic Compounds in Soil
Proposed or Future Residential Property
418, 426, 430 and Firmin Street, Los Angeles, California 90026

Sample ID	Sample Date	Sample Depth (ft bgs)	EPA Method 8260B (µg/kg)							
			Benzene	Ethylbenzene	Isopropylbenzene	n-Propylbenzene	tert-Butylbenzene	sec-Butylbenzene	TBA	All other EPA Method 8260B VOC Analytes
B2-S-2	10/04/17	2	**3.21**	**8.02**	31.0	8.6	7.31	12.8	43.6	ND
DTSC-SLs			**0.33**	**5.8***	**1,900***	**3,800***	**2,200**	**2,200**	**NE**	**Varies**

Notes:
ft bgs = feet below ground surface
EPA = United States Environmental Protection Agency
TPH = total petroleum hydrocarbons
µg/kg = micrograms per kilogram
VOC = Volatile Organic Compounds
ND = not detected above laboratory reporting limit
Concentrations shown in **bold** exceed the SLs, indicating a potential threat to human health.
DTSC-SL = Department of Toxic Substances Control Screening Level for Residential Soil [Human and Ecological Risk Office (HERO); HHRA Note 3, August 2017]
* = Compound has no established DTSC-SL, Residential RSLs were used
RSL = Regional Screening Level (EPA, June 2017)

APPENDIX A

GEOPHYSICAL SURVEY REPORT

GROUND PENETRATING RADAR SYSTEMS, INC.

EXPERTS IN GPR

Thursday, October 19, 2017

EFI Global
Attn: Desi Salgado
Site: 430 Firmin St Los Angeles, CA 90026

Re: GPR Investigation to Locate possible oil wells

We appreciate the opportunity to provide this report for our work completed on 10/19/17 at the above address in Los Angeles, CA.

Purpose

The purpose of the survey was to determine whether any underground oil wells remained on the property.

Equipment

- **Ground Penetrating Radar (GPR), Manufacturer: GSSI, Model: SIR-3000 processing unit with 400 MHz antenna.** GPR works by sending pulses of energy into a material and recording the strength and the time require for the return of the reflected signal. Reflections are produced when the energy pulses enter into a material with different electrical conduction properties from the material it left. The strength of the reflection is determined by the contrast in conductivity between the two materials. The total depth achieved can be as much as 8' with this antenna but can vary widely depending on the dielectric properties of the materials. For more information, please visit: http://www.geophysical.com/Documentation/Brochures/GSSI-UtilityScanBrochure.pdf

- **Electromagnetic Induction (EMI), Manufacturer: GSSI, Model: Profiler EMP-400.** EM instruments contain two sets of coils that are located on opposite ends of the tool. One set of coils is used to transmit a primary magnetic field, which generates an electrical current into the ground. The induced current then generates a secondary magnetic field, which is sensed by the coils in the receiver end of the instrument. Data is then displayed on a control unit indicating the conductivity of the earth. The data is post-processed and displayed in a color-coded contour map. http://www.geophysical.com/Documentation/Brochures/GSSI-ProfilerBrochure.pdf

- **RD7000 pipe locator, Manufacturer: Radiodetection.** The RD7000 can detect the electromagnetic fields from live power or radio frequency signals. It can also be used in conjunction with a trasmitter to connect directly to accessible, metallic pipes, risers, or tracer wires. A tone is sent through the pipe or tracer wire at a specific frequency which can then be detected by the receiver. For more information, please visit: http://www.spx.com/en/radiodetection/pd-rd7000/

- **Schonstedt GA-72cd Magnetic Locator (Magnetometer).** The magnetometer detects the magnetic field of a ferromagnetic object. It responds to the difference in the magnetic field between two sensors. It is interpreted in the field by listening to changes in frequency as emitted by a speaker on the device. For more information, please visit: http://www.schonstedt.com/products/ga-52cx/

Process

Our process begins with collecting scans with GPR across the areas in a grid pattern. Scans are typically spaced 2'-3' apart depending on the size of the targets being searched for. The GPR data is interpreted in real time and anomalies in the data are located and marked on the surface with spray paint, pin flags, etc.

We then collect data with the EMI. Scans are collected 2'-3' on center in any direction so as to cover the entire area. The data locations are tied to GPS coordinates which are used to process the data and create a contour map. The conductivity values in the contour map can then be interpreted as anomalies which could represent UST's, excavations or other subsurface features. The map can be overlaid on an aerial image using Google Earth.

The RD7000 is used to locate pipes or utilities at the soil boring locations. We first sweep all areas with the receiver to detect live power or radio frequency signals followed by connecting to any visible risers or tracer wires that may be in the area.

The magnetometer was also used to sweep the site for metallic objects.

Findings

We found that the soil allowed for GPR depth penetration of 6' in most areas. . The soil was favorable for GPR and we were able to clear the area for utilities. EMI data was collected and our findings can be seen in the images below.

Limitations

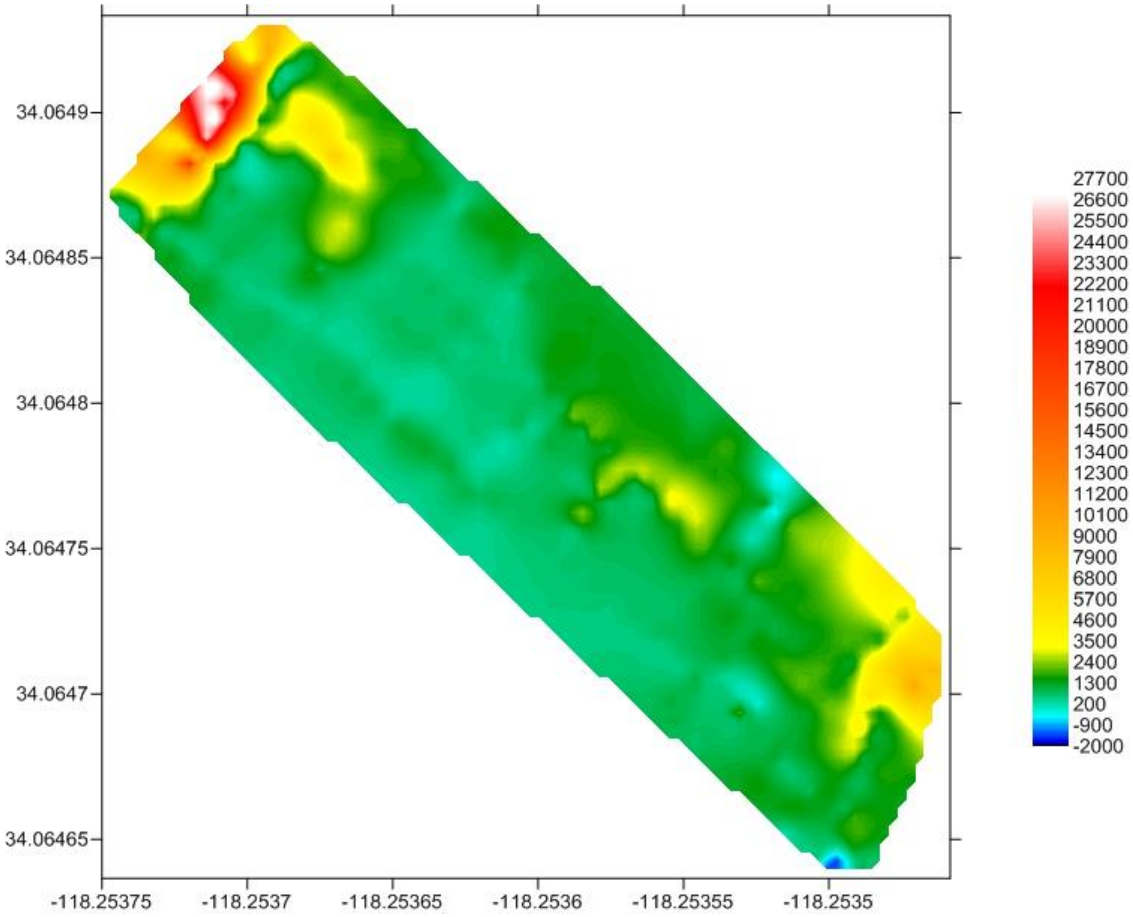
Please keep in mind that there are limitations to any subsurface investigation. The equipment may not achieve maximum effectiveness due to soil conditions, above ground obstructions, reinforced concrete, and a variety of other factors. No subsurface investigation or equipment can provide a complete image of what lies below. Our results should always be used in conjunction with as many methods as possible including consulting existing plans and drawings, exploratory excavation or potholing, visual inspection of above ground features, and utilization of services such as Dig Alert/Underground Service Alert.

At this site, our scans were limited by the chain link fence around the property and near obstructions on the property. The following images will further explain the findings.

Signed,



Ivan Merrill
Project Manager - Southern California
GPRS GROUND PENETRATING RADAR SYSTEMS, INC.
EXPERTS IN GPR
Direct 562-665-7267
www.gp-radar.com



GPRS scanned the area with Electromagnetic Induction equipment, and the following conductivity maps represent the data collected from the scanning process. These conductivity maps provide information as it relates to the conductivity of the area(s) scanned. GPRS is providing this information for your interpretation. GPRS will simply point out the areas of higher conductivity. It is the responsibility of the customer to further analyze/investigate the information provided.

APPENDIX B

BORING LOGS WITH BOREHOLE COMPLETION DIAGRAMS

EFI Global
Engineering, Fire & Environmental Services

BORING LOG

BORING ID: B1

PROJECT NUMBER: 9836002796
DATE(S) DRILLED: 10/4/17
PAGE 1 OF 1

PROJECT NAME: 418,426,430 Firmin St
LOGGED BY: DS
START TIME: 8:06
END TIME: 8:30

PROJECT ADDRESS: 418,426,430 Firmin St
DRILLING METHOD & RIG: DPT / 5400

DEPTH TO GROUNDWATER: NA
TERMINAL DEPTH: 20
BOREHOLE DIAMETER: 1.5
DRILLING CONTRACTOR / DRILLER NAME: MDP / Christian

1. USCS GROUP NAME (SYMBOL): 2. Color; 3. Moisture; 4. Density/consistency; 5. Plasticity 6. Grain/particle size; 7. Sorting; 8. -if- Coarse; 9. Features - i.e. mottling, micaceous; 10. Staining/odor

PID CAL GAS and DATE: Isobutylene/Hexane 100.1 ppm 10/4
SAMPLING METHOD: acetate

TIME	BC	SAMPLE ID	R	SI	DEPTH	PID	USCS	LITHOLOGY
								~3" concrete
					1			w/trace sand (Fill?)
8:10		B1-S-2			2	0.0	ML	clayey silt, dark brown, hard, low plasticity, no staining, no odors
					3			
					4			
8:15		B1-S-5			5	0.0	ML	silt w/trace clay, yellowish brown w/ gray mottling, medium stiff, low plasticity, no staining or odors
					6			
					7			
					8			
					9			
8:20		B1-S-10			10	0.0	ML	same as above; greenish mottling
					11			
					12			
					13			
					14			
8:25		B1-S-15			15	0.0	ML	silt w/trace clay, ~~yellowish~~ blueish gray w/ brown mottling, soft, low plasticity, no odors
					16			
					17			
					18			
					19			
8:30		B1-S-20			20	0.0	ML	same as above

COMPLETION

PROBE TIP | DRY BENTONITE | SAND PACK | HYDRATED BENTONITE

BC - BLOW COUNT R - RECOVERY SI - SAMPLE INTERVAL

EFI Global
Engineering, Fire & Environmental Services

BORING LOG

BORING ID: B2

PROJECT NUMBER: 9836002796
DATE(S) DRILLED: 10/4/17
PAGE 1 OF 2

PROJECT NAME:
LOGGED BY: DS
START TIME: 8:45
END TIME: 9:45

PROJECT ADDRESS: 418, 426, 430 Firmin St
DRILLING METHOD & RIG: DPT / 5400

DEPTH TO GROUNDWATER: NA
TERMINAL DEPTH: ~~20~~ 25'
BOREHOLE DIAMETER: 1.5'
DRILLING CONTRACTOR / DRILLER NAME: MDP / Christian

1. USCS GROUP NAME (SYMBOL): 2. Color; 3. Moisture; 4. Density/consistency; 5. Plasticity 6. Grain/particle size; 7. Sorting; 8. -if- Coarse; 9. Features - i.e. mottling, micaceous; 10. Staining/odor

PID CAL GAS and DATE: Isobutylene/Hexane 100 ppm 10/4
SAMPLING METHOD: acetate

TIME	BC	SAMPLE ID	R	SI	DEPTH	PID	USCS	LITHOLOGY
8:50		B2-S-2			2	1,251	CL	silty clay, dark brown/black, moist, medium stiff, plastic, very strong hydrocarbon odor
8:55		B2-S-5			5	64.6	ML	sandy silt ~~silty sand~~, gray, moist, soft, non-plastic, strong hydrocarbon odor
9:00		B2-S-10			10	66.0	ML	clayey silt, med. brown w/ gray mottling, moist, soft, non-plastic, slight hydrocarbon odor
9:10		B2-S-15			15	170.4	ML	sandy silt w/ clay, med. brown w/ gray mottling, moist, medium stiff, non-plastic, strong hydrocarbon odor
9:20		B2-S-20			20	558.5	ML	same as above
9:45		B2-S-25				75,000	ML	same as above; refusal

COMPLETION

PROBE TIP | DRY BENTONITE | SAND PACK | HYDRATED BENTONITE
BC - BLOW COUNT R - RECOVERY SI - SAMPLE INTERVAL

EFI Global
Engineering, Fire & Environmental Services

BORING LOG

BORING ID: B3

PROJECT NUMBER: 9836002796
DATE(S) DRILLED: 10/4/17
PAGE 1 OF 1

PROJECT NAME:
LOGGED BY: DS
START TIME: 10:45
END TIME: 11:15

PROJECT ADDRESS: 418, 426, 430 Firmin St
DRILLING METHOD & RIG: DPT / 5400

DEPTH TO GROUNDWATER: NA
TERMINAL DEPTH: 20'
BOREHOLE DIAMETER: 1.5"
DRILLING CONTRACTOR / DRILLER NAME: MDP / Christian

1. USCS GROUP NAME (SYMBOL): 2. Color; 3. Moisture; 4. Density/consistency; 5. Plasticity 6. Grain/particle size; 7. Sorting; 8. -if- Coarse; 9. Features - i.e. mottling, micaceous; 10. Staining/odor

PID CAL GAS and DATE: Isobutylene/Hexane 102.1 ppm 10/4
SAMPLING METHOD: acetate

TIME	BC	SAMPLE ID	R	SI	DEPTH	PID	USCS	LITHOLOGY
								unpaved soil
10:45		B3-S-2			2	0.0	ML	clayey silt, dark brown, moist, hard, non-plastic, no odors, no staining
10:50		B3-S-5			5	0.1	ML	clayey silt w/ sand, medium brown, with light gray mottling, moist, very stiff, non-plastic, no odors or staining
10:55		B3-S-10			10	238.0	SM	silty sand, gray, moist, loose, fine-grained, poorly sorted, slight hydrocarbon odor
11:05		B3-S-15			15	152.6	SM	same as above
					16			borehole collapsed at 16'
					18			rig chatter / tough drilling
11:15		B3-S-20			20	115.7	ML & SM	sandy silt, dark gray, moist, hard, non-plastic, strong hydrocarbon odor, refusal

COMPLETION

PROBE TIP | DRY BENTONITE | SAND PACK | HYDRATED BENTONITE

BC - BLOW COUNT R - RECOVERY SI - SAMPLE INTERVAL

BORING LOG

EFI Global
Engineering, Fire & Environmental Services

BORING ID: B4

PAGE 1 OF 1

PROJECT NUMBER: 98360027796	DATE(S) DRILLED: 10/4/17		
PROJECT NAME:	LOGGED BY: DS	START TIME: 12:15	END TIME: 12:55
PROJECT ADDRESS: 418, 426, 430 Firmin St		DRILLING METHOD & RIG: DPT / 5400	
DEPTH TO GROUNDWATER: NA	TERMINAL DEPTH: 20'	BOREHOLE DIAMETER: 1.5'	DRILLING CONTRACTOR / DRILLER NAME: MDP / Christian
1. USCS GROUP NAME (SYMBOL): 2. Color; 3. Moisture; 4. Density/consistency; 5. Plasticity 6. Grain/particle size; 7. Sorting; 8. -if- Coarse; 9. Features - i.e. mottling, micaceous; 10. Staining/odor	PID CAL GAS and DATE: Isobutylene/Hexanel 00.1 ppm 10/4	SAMPLING METHOD: acetate	

TIME	BC	SAMPLE ID	R	SI	DEPTH	PID	USCS	LITHOLOGY
								unpaved soil
12:20		B4-S-2			2	4.1	ML	clayey silt w trace sand (fill), dark brown, moist, hard, non-plastic, slight hydrocarbon odor
12:25		B4-S-5			5	0.9	ML	sandy silt, yellowish brown w gray mottling, moist, medium stiff, non-plastic, no odors
12:30		B4-S-10			10	362.0	ML	sandy silt, grayish brown, moist, soft, strong hydrocarbon odor, non-plastic
12:40		B4-S-15			15	35.1	ML	Sandy silt, medium brown, moist, medium stiff, non-plastic, no odors
12:55		B4-S-20			20	2.0	ML	clayey silt, dark gray, moist, hard, non-plastic, no odors, rig chatter

COMPLETION

PROBE TIP | DRY BENTONITE | SAND PACK | HYDRATED BENTONITE

BC - BLOW COUNT R - RECOVERY SI - SAMPLE INTERVAL

EFI Global
Engineering, Fire & Environmental Services

BORING LOG

BORING ID: B5

PROJECT NUMBER: 983600 2796
DATE(S) DRILLED: 10/4/17
PAGE 1 OF 1

PROJECT NAME:
LOGGED BY:
START TIME: 13:15
END TIME: 13:5

PROJECT ADDRESS: 418, 426, 430 Fimin St
DRILLING METHOD & RIG: DPT / 5400

DEPTH TO GROUNDWATER: NA
TERMINAL DEPTH: 20'
BOREHOLE DIAMETER: 1.5'
DRILLING CONTRACTOR / DRILLER NAME: MDP / Christian

1. USCS GROUP NAME (SYMBOL): 2. Color; 3. Moisture; 4. Density/consistency; 5. Plasticity 6. Grain/particle size; 7. Sorting; 8. -if- Coarse; 9. Features - i.e. mottling, micaceous; 10. Staining/odor

PID CAL GAS and DATE: Isobutylene/Hexane 100-1 ppm 10/4
SAMPLING METHOD: acetate

TIME	BC	SAMPLE ID	R	SI	DEPTH	PID	USCS	LITHOLOGY	COMPLETION
								uppared soil	
					1			(Fill?)	
13:20		B5-S-2			2	0.4	ML	clayey silt w/ sand, dark brown, moist, hard, non-plastic, no odors	
					3				
					4				
13:25		B5-S-5			5	0.0	ML	sandy silt, medium brown, moist, med. stiff, non-plastic, no odors	
					6				
					7				
					8				
					9				
13:30		B5-S-10			10	0.4	ML	sandy silt, orangeish brown w/ blue mottling, ~~med~~ moist, medium stiff, non-plastic, no odors	
					11				
					12				
					13				
					14				
13:40		B5-S-15			15	6.7	ML	same as above; dark gray, no odors	
					16				
					17				
					18				
					19		ML	clayey silt, dark gray, moist, hard, non-plastic, no odors	
13:50		B5-S-20			20	3.1	~~SC~~		

PROBE TIP | DRY BENTONITE | SAND PACK | HYDRATED BENTONITE
BC - BLOW COUNT R - RECOVERY SI - SAMPLE INTERVAL

BORING LOG

EFI Global
Engineering, Fire & Environmental Services

BORING ID: B6

PROJECT NUMBER: 9836002796

DATE(S) DRILLED: 10/4/17

PAGE 1 OF ___

PROJECT NAME:

LOGGED BY: DS

START TIME: 1540

END TIME: 1615

PROJECT ADDRESS: 418, 426, 430 Firmin

DRILLING METHOD & RIG: DPT / ~~420M~~ LAR

DEPTH TO GROUNDWATER: NA

TERMINAL DEPTH: ~~15~~

BOREHOLE DIAMETER: 1.5"

DRILLING CONTRACTOR / DRILLER NAME: MDP / Andrew

1. USCS GROUP NAME (SYMBOL): 2. Color; 3. Moisture; 4. Density/consistency; 5. Plasticity 6. Grain/particle size; 7. Sorting; 8. -if- Coarse; 9. Features - i.e. mottling, micaceous; 10. Staining/odor

PID CAL GAS and DATE: Isobutylene/Hexane (100-1 ppm 10/4

SAMPLING METHOD: acetate

TIME	BC	SAMPLE ID	R	SI	DEPTH	PID	USCS	LITHOLOGY
								landscaped pea gravel surface (decorative)
1580		B6-S-2			2		ML	clayey silt, dark brown, moist, hard, non-plastic, no odors
1555		B6-S-5			5		ML	sandy silt, yellowish brown w orange mottling, moist, medium stiff, non-plastic, no odors
1600		B6-S-10			10		ML	same as above
					14			rig chatter
1615		B6-S-15			15			same as above; refusal

COMPLETION

PROBE TIP | DRY BENTONITE | SAND PACK | HYDRATED BENTONITE

BC - BLOW COUNT R - RECOVERY SI - SAMPLE INTERVAL

APPENDIX C

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

October 12, 2017

Mr. Desi Salgado
Andersen Environmental, an EFI Global Company
5261 West Imperial Highway
Los Angeles, CA 90045

Report No.: 1710055
Project Name: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Dear Mr. Desi Salgado,

This report contains the analytical results for the sample(s) received under chain of custody(s) by Positive Lab Service on October 05, 2017.

The test results in this report are performed in compliance with ELAP accreditation requirements for the certified parameters. The laboratory report may not be produced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Preliminary data should not be used for regulatory purposes. Authorized signature(s) is provided on final report only.

If you have any questions in reference to this report, please contact your Positive Lab Service coordinator.

Project Manager

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Certificate of Analysis

Andersen Environmental, an EFI Global Company
5261 West Imperial Highway
Los Angeles, CA 90045

Attn: Mr. Desi Salgado Phone: (310) 854-6300 FAX:(310) 363-3739

File #:74354
Report Date: 10/12/17
Submitted: 10/05/17
PLS Report No.: 1710055

Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Sample ID: B1-S-2 Soil (1710055-01) Sampled:10/04/17 08:10 Received:10/05/17 13:35

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
TPH C9 - C22	**44.0**		1	mg/kg	2.50	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
TPH C23 - C32	**439**		1	mg/kg	100	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
TPH C33 - C36	**147**		1	mg/kg	100	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
Surrogate: n-Tetracosane	*116 %*			*68-133*		*EPA 3550C*	*EPA 8015M*	*10/06/17*	*10/10/17*	*rp*	*BJ71026*

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Antimony	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Arsenic	**10.9**		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Barium	**283**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Beryllium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cadmium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Chromium	**20.1**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cobalt	**14.0**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Copper	**34.8**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Lead	**54.0**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Molybdenum	**2.53**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Nickel	**33.0**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Selenium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Silver	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Thallium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Vanadium	**47.0**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Zinc	**106**		1	mg/kg	5.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Mercury	**0.131**		1	mg/kg	0.100	EPA 7471A	EPA 7471A	10/09/17	10/09/17	pj	BJ71021

Sample ID: B2-S-2 Soil (1710055-02) Sampled:10/04/17 08:50 Received:10/05/17 13:35

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
TPH C9 - C22	**5790**		10	mg/kg	25.0	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
TPH C23 - C32	**4620**		10	mg/kg	1000	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
TPH C33 - C36	**341**		1	mg/kg	100	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
Surrogate: n-Tetracosane	*132 %*			*68-133*		*EPA 3550C*	*EPA 8015M*	*10/06/17*	*10/10/17*	*rp*	*BJ71026*

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Dichlorodifluoromethane (FC-12)	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Chloromethane	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Vinyl chloride (Chloroethylene)	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Bromomethane (Methyl bromide)	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Chloroethane	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Trichlorofluoromethane (FC-11)	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Acetone	ND		1	ug/kg	80.0	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Carbon disulfide	ND		1	ug/kg	40.0	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,1-Dichloroethene	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Methylene chloride (Dichloromethane)	ND		1	ug/kg	20.0	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Tert-butyl alcohol	**43.6**		1	ug/kg	20.0	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
trans-1,2-Dichloroethene	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Methyl tert-butyl ether (MTBE)	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,1-Dichloroethane	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Di-isopropyl ether	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Vinyl acetate	ND		1	ug/kg	40.0	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928

POSITIVE LAB SERVICE

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Certificate of Analysis

Andersen Environmental, an EFI Global Company
5261 West Imperial Highway
Los Angeles, CA 90045

File #:74354
Report Date: 10/12/17
Submitted: 10/05/17
PLS Report No.: 1710055

Attn: Mr. Desi Salgado Phone: (310) 854-6300 FAX:(310) 363-3739

Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Sample ID: B2-S-2 Soil (1710055-02) Sampled:10/04/17 08:50 Received:10/05/17 13:35

Ethyl tert-butyl ether	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
2,2-Dichloropropane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
cis-1,2-Dichloroethene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
2-Butanone (MEK)	ND	1	ug/kg	40.0	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Bromochloromethane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Chloroform	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,1,1-Trichloroethane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Tert-amyl methyl ether	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Carbon tetrachloride	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,1-Dichloropropene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Benzene	**3.21**	1	ug/kg	2.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,2-Dichloroethane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Trichloroethene (TCE)	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,2-Dichloropropane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Dibromomethane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,4-Dioxane	ND	1	ug/kg	80.0	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Bromodichloromethane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
2-Chloroethyl vinyl ether	ND	1	ug/kg	40.0	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
cis-1,3-Dichloropropene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
4-Methyl-2-pentanone (MIBK)	ND	1	ug/kg	40.0	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Toluene	ND	1	ug/kg	2.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
trans-1,3-Dichloropropene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,1,2-Trichloroethane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Tetrachloroethene (PCE)	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,3-Dichloropropane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
2-Hexanone (MBK)	ND	1	ug/kg	40.0	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Dibromochloromethane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,2-Dibromoethane (EDB)	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Chlorobenzene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,1,1,2-Tetrachloroethane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Ethylbenzene	**8.02**	1	ug/kg	2.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
m,p-Xylene	ND	1	ug/kg	2.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
o-Xylene	ND	1	ug/kg	2.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Styrene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Bromoform (Tribromomethane)	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Isopropylbenzene (Cumene)	**31.0**	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Bromobenzene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,1,2,2-Tetrachloroethane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,2,3-Trichloropropane	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
n-Propylbenzene	**8.62**	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
2-Chlorotoluene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
4-Chlorotoluene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,3,5-Trimethylbenzene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
tert-Butylbenzene	**7.41**	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,2,4-Trimethylbenzene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
sec-Butylbenzene	**12.8**	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,3-Dichlorobenzene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
4-Isopropyltoluene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,4-Dichlorobenzene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,2-Dichlorobenzene	ND	1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928

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Los Angeles, CA 90045

Attn: Mr. Desi Salgado Phone: (310) 854-6300 FAX:(310) 363-3739

File #:74354
Report Date: 10/12/17
Submitted: 10/05/17
PLS Report No.: 1710055

Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Sample ID: B2-S-2 Soil (1710055-02) Sampled:10/04/17 08:50 Received:10/05/17 13:35

n-Butylbenzene	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,2,4-Trichlorobenzene	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Hexachlorobutadiene	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Naphthalene	**4.48**		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
1,2,3-Trichlorobenzene	ND		1	ug/kg	4.00	EPA 5030B	EPA 8260B	10/05/17	10/05/17	mb	BJ70928
Surrogate: Dibromofluoromethane	*102 %*			*81-134*		*EPA 5030B*	*EPA 8260B*	*10/05/17*	*10/05/17*	*mb*	*BJ70928*
Surrogate: Toluene-d8	*113 %*			*80-120*		*EPA 5030B*	*EPA 8260B*	*10/05/17*	*10/05/17*	*mb*	*BJ70928*
Surrogate: 4-Bromofluorobenzene	*159 %*	*DO*		*78-122*		*EPA 5030B*	*EPA 8260B*	*10/05/17*	*10/05/17*	*mb*	*BJ70928*

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Antimony	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Arsenic	**6.84**		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Barium	**310**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Beryllium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cadmium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Chromium	**15.7**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cobalt	**10.1**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Copper	**21.7**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Lead	**8.67**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Molybdenum	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Nickel	**19.8**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Selenium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Silver	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Thallium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Vanadium	**31.7**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Zinc	**39.8**		1	mg/kg	5.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Mercury	ND		1	mg/kg	0.100	EPA 7471A	EPA 7471A	10/09/17	10/09/17	pj	BJ71021

Sample ID: B3-S-10 Soil (1710055-03) Sampled:10/04/17 10:55 Received:10/05/17 13:35

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
TPH C9 - C22	**11500**		30	mg/kg	75.0	EPA 3550C	EPA 8015M	10/06/17	10/11/17	rp	BJ71026
TPH C23 - C32	**7260**		30	mg/kg	3000	EPA 3550C	EPA 8015M	10/06/17	10/11/17	rp	BJ71026
TPH C33 - C36	**348**		1	mg/kg	100	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
Surrogate: n-Tetracosane	*122 %*			*68-133*		*EPA 3550C*	*EPA 8015M*	*10/06/17*	*10/10/17*	*rp*	*BJ71026*

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Antimony	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Arsenic	**5.58**		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Barium	**146**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Beryllium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cadmium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Chromium	**19.4**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cobalt	**7.35**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Copper	**20.9**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Lead	**9.14**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Molybdenum	**1.27**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Nickel	**13.0**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Selenium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017

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File #:74354
Report Date: 10/12/17
Submitted: 10/05/17
PLS Report No.: 1710055

Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Sample ID: B3-S-10 Soil (1710055-03) Sampled:10/04/17 10:55 Received:10/05/17 13:35

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Silver	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Thallium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Vanadium	**38.5**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Zinc	**51.6**		1	mg/kg	5.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Mercury	ND		1	mg/kg	0.100	EPA 7471A	EPA 7471A	10/09/17	10/09/17	pj	BJ71021

Sample ID: B3-S-20 Soil (1710055-04) Sampled:10/04/17 11:15 Received:10/05/17 13:35

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
TPH C9 - C22	**6680**		20	mg/kg	50.0	EPA 3550C	EPA 8015M	10/06/17	10/11/17	rp	BJ71026
TPH C23 - C32	**7520**		20	mg/kg	2000	EPA 3550C	EPA 8015M	10/06/17	10/11/17	rp	BJ71026
TPH C33 - C36	**375**		1	mg/kg	100	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
Surrogate: n-Tetracosane	*127 %*			*68-133*		*EPA 3550C*	*EPA 8015M*	*10/06/17*	*10/10/17*	*rp*	*BJ71026*

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Antimony	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Arsenic	**12.7**		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Barium	**171**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Beryllium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cadmium	**1.10**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Chromium	**21.3**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cobalt	**12.0**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Copper	**26.2**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Lead	**5.33**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Molybdenum	**9.87**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Nickel	**37.1**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Selenium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Silver	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Thallium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Vanadium	**41.0**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Zinc	**66.5**		1	mg/kg	5.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Mercury	ND		1	mg/kg	0.100	EPA 7471A	EPA 7471A	10/09/17	10/09/17	pj	BJ71021

Sample ID: B4-S-10 Soil (1710055-05) Sampled:10/04/17 12:30 Received:10/05/17 13:35

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
TPH C9 - C22	**3040**		10	mg/kg	25.0	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
TPH C23 - C32	**2770**		10	mg/kg	1000	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
TPH C33 - C36	**300**		1	mg/kg	100	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
Surrogate: n-Tetracosane	*119 %*			*68-133*		*EPA 3550C*	*EPA 8015M*	*10/06/17*	*10/10/17*	*rp*	*BJ71026*

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Antimony	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Arsenic	**5.94**		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Barium	**259**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Beryllium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cadmium	**1.72**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Chromium	**16.8**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cobalt	**9.35**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Copper	**34.3**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017

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Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Sample ID: B4-S-10 Soil (1710055-05) Sampled:10/04/17 12:30 Received:10/05/17 13:35

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Lead	**5.32**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Molybdenum	**1.43**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Nickel	**27.1**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Selenium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Silver	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Thallium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Vanadium	**32.9**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Zinc	**65.5**		1	mg/kg	5.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Mercury	**0.100**		1	mg/kg	0.100	EPA 7471A	EPA 7471A	10/09/17	10/09/17	pj	BJ71021

Sample ID: B5-S-15 Soil (1710055-06) Sampled:10/04/17 13:40 Received:10/05/17 13:35

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
TPH C4 - C12	ND		1	mg/kg	0.500	EPA 5030B	EPA 8015M	10/06/17	10/06/17	lk	BJ70608
Surrogate: a,a,a-Trifluorotoluene	*111 %*			*70-141*		*EPA 5030B*	*EPA 8015M*	*10/06/17*	*10/06/17*	*lk*	*BJ70608*
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
TPH C13 - C22	**21.3**		1	mg/kg	2.50	EPA 3550C	EPA 8015M	10/06/17	10/09/17	rp	BJ71026
TPH C23 - C32	**135**		1	mg/kg	100	EPA 3550C	EPA 8015M	10/06/17	10/09/17	rp	BJ71026
TPH C33 - C36	ND		1	mg/kg	100	EPA 3550C	EPA 8015M	10/06/17	10/09/17	rp	BJ71026
Surrogate: n-Tetracosane	*112 %*			*68-133*		*EPA 3550C*	*EPA 8015M*	*10/06/17*	*10/09/17*	*rp*	*BJ71026*
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Antimony	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Arsenic	**3.53**		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Barium	**188**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Beryllium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cadmium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Chromium	**17.9**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cobalt	**5.39**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Copper	**13.1**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Lead	**7.70**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Molybdenum	**5.40**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Nickel	**7.90**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Selenium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Silver	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Thallium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Vanadium	**30.2**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Zinc	**34.1**		1	mg/kg	5.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Mercury	**0.117**		1	mg/kg	0.100	EPA 7471A	EPA 7471A	10/09/17	10/09/17	pj	BJ71021

Sample ID: B6-S-5 Soil (1710055-07) Sampled:10/04/17 15:55 Received:10/05/17 13:35

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
TPH C4 - C12	ND		1	mg/kg	0.500	EPA 5030B	EPA 8015M	10/05/17	10/05/17	lk	BJ70608
Surrogate: a,a,a-Trifluorotoluene	*105 %*			*70-141*		*EPA 5030B*	*EPA 8015M*	*10/05/17*	*10/05/17*	*lk*	*BJ70608*
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
TPH C13 - C22	ND		1	mg/kg	2.50	EPA 3550C	EPA 8015M	10/06/17	10/09/17	rp	BJ71026
TPH C23 - C32	ND		1	mg/kg	100	EPA 3550C	EPA 8015M	10/06/17	10/09/17	rp	BJ71026

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File #:74354
Report Date: 10/12/17
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Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Sample ID: B6-S-5 Soil (1710055-07) Sampled:10/04/17 15:55 Received:10/05/17 13:35

TPH C33 - C36	ND		1	mg/kg	100	EPA 3550C	EPA 8015M	10/06/17	10/09/17	rp	BJ71026
Surrogate: n-Tetracosane	*115 %*			*68-133*		*EPA 3550C*	*EPA 8015M*	*10/06/17*	*10/09/17*	*rp*	*BJ71026*

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Antimony	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Arsenic	**9.34**		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Barium	**250**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Beryllium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cadmium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Chromium	**27.9**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cobalt	**12.7**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Copper	**35.9**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Lead	**15.6**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Molybdenum	**4.09**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Nickel	**31.9**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Selenium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Silver	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Thallium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Vanadium	**52.8**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Zinc	**76.2**		1	mg/kg	5.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Mercury	ND		1	mg/kg	0.100	EPA 7471A	EPA 7471A	10/09/17	10/09/17	pj	BJ71021

Sample ID: B2-S-25 Soil (1710055-08) Sampled:10/04/17 09:45 Received:10/05/17 13:35

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
TPH C4 - C12	**14.0**		1	mg/kg	0.500	EPA 5030B	EPA 8015M	10/05/17	10/05/17	lk	BJ70608
Surrogate: a,a,a-Trifluorotoluene	*924 %*	*DO*		*70-141*		*EPA 5030B*	*EPA 8015M*	*10/05/17*	*10/05/17*	*lk*	*BJ70608*

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
TPH C13 - C22	**3160**		10	mg/kg	25.0	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
TPH C23 - C32	**3240**		10	mg/kg	1000	EPA 3550C	EPA 8015M	10/06/17	10/10/17	rp	BJ71026
TPH C33 - C36	**320**		1	mg/kg	100	EPA 3550C	EPA 8015M	10/06/17	10/07/17	rp	BJ71026
Surrogate: n-Tetracosane	*120 %*			*68-133*		*EPA 3550C*	*EPA 8015M*	*10/06/17*	*10/07/17*	*rp*	*BJ71026*

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Antimony	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Arsenic	**9.28**		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Barium	**202**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Beryllium	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cadmium	**1.08**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Chromium	**25.8**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Cobalt	**10.7**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Copper	**34.1**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Lead	**6.29**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Molybdenum	**3.13**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Nickel	**29.1**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Selenium	**2.03**		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Silver	ND		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Thallium	ND		1	mg/kg	2.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Vanadium	**48.0**		1	mg/kg	1.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017

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Certificate of Analysis

Andersen Environmental, an EFI Global Company
5261 West Imperial Highway
Los Angeles, CA 90045

File #:74354
Report Date: 10/12/17
Submitted: 10/05/17
PLS Report No.: 1710055

Attn: Mr. Desi Salgado Phone: (310) 854-6300 FAX:(310) 363-3739

Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Sample ID: B2-S-25 Soil (1710055-08) Sampled:10/04/17 09:45 Received:10/05/17 13:35

Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method		Prepared	Analyzed	By	Batch
Zinc	**65.9**		1	mg/kg	5.00	EPA 3050B	EPA 6010B	10/09/17	10/09/17	CG	BJ71017
Mercury	**0.114**		1	mg/kg	0.100	EPA 7471A	EPA 7471A	10/09/17	10/09/17	pj	BJ71021

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Report Date: 10/12/17
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Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ70608 - EPA 5030B										
Blank	**Prepared & Analyzed: 10/05/17**									
TPH C4 - C12	ND	0.500	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	*0.0149*		mg/kg	*0.01500*		*99.3*	*70-141*			
LCS	**Prepared & Analyzed: 10/05/17**									
Gasoline	0.975	0.500	mg/kg	0.9096		107	69-120			
Matrix Spike **Source: 1710047-23**	**Prepared & Analyzed: 10/05/17**									
Gasoline	1.67	0.500	mg/kg	1.819	ND	92.0	60-132			
Matrix Spike Dup **Source: 1710047-23**	**Prepared & Analyzed: 10/05/17**									
Gasoline	1.67	0.500	mg/kg	1.819	ND	91.9	60-132	0.0744	30	
Batch BJ71026 - EPA 3550C										
Blank	**Prepared: 10/06/17 Analyzed: 10/09/17**									
TPH C9 - C22	ND	2.50	mg/kg							
TPH C13 - C22	ND	2.50	mg/kg							
TPH C23 - C32	ND	100	mg/kg							
TPH C33 - C36	ND	100	mg/kg							
Surrogate: n-Tetracosane	*24.4*		mg/kg	*20.83*		*117*	*68-133*			
LCS	**Prepared: 10/06/17 Analyzed: 10/09/17**									
Diesel	669	6.25	mg/kg	554.7		121	69-137			
Surrogate: n-Tetracosane	*26.1*		mg/kg	*20.83*		*125*	*64-140*			
Matrix Spike **Source: 1710047-01**	**Prepared: 10/06/17 Analyzed: 10/11/17**									
Diesel	88.1	2.50	mg/kg	110.9	ND	79.4	53-138			
Surrogate: n-Tetracosane	*23.0*		mg/kg	*20.83*		*110*	*68-133*			
Matrix Spike Dup **Source: 1710047-01**	**Prepared: 10/06/17 Analyzed: 10/11/17**									
Diesel	95.3	2.50	mg/kg	110.9	ND	85.9	53-138	7.93	30	
Surrogate: n-Tetracosane	*24.3*		mg/kg	*20.83*		*117*	*68-133*			
Batch BJ70928 - EPA 5030B										
Blank	**Prepared & Analyzed: 10/05/17**									
Dichlorodifluoromethane (FC-12)	ND	4.00	ug/kg							
Chloromethane	ND	4.00	ug/kg							
Vinyl chloride (Chloroethylene)	ND	4.00	ug/kg							
Bromomethane (Methyl bromide)	ND	4.00	ug/kg							
Chloroethane	ND	4.00	ug/kg							
Trichlorofluoromethane (FC-11)	ND	4.00	ug/kg							
Acetone	ND	80.0	ug/kg							
Carbon disulfide	ND	40.0	ug/kg							
1,1-Dichloroethene	ND	4.00	ug/kg							
Methylene chloride (Dichloromethane)	ND	20.0	ug/kg							

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Attn: Mr. Desi Salgado Phone: (310) 854-6300 FAX:(310) 363-3739

Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ70928 - EPA 5030B										
Tert-butyl alcohol	ND	20.0	ug/kg							
trans-1,2-Dichloroethene	ND	4.00	ug/kg							
Methyl tert-butyl ether (MTBE)	ND	4.00	ug/kg							
1,1-Dichloroethane	ND	4.00	ug/kg							
Di-isopropyl ether	ND	4.00	ug/kg							
Vinyl acetate	ND	40.0	ug/kg							
Ethyl tert-butyl ether	ND	4.00	ug/kg							
2,2-Dichloropropane	ND	4.00	ug/kg							
cis-1,2-Dichloroethene	ND	4.00	ug/kg							
2-Butanone (MEK)	ND	40.0	ug/kg							
Bromochloromethane	ND	4.00	ug/kg							
Chloroform	ND	4.00	ug/kg							
1,1,1-Trichloroethane	ND	4.00	ug/kg							
Tert-amyl methyl ether	ND	4.00	ug/kg							
Carbon tetrachloride	ND	4.00	ug/kg							
1,1-Dichloropropene	ND	4.00	ug/kg							
Benzene	ND	2.00	ug/kg							
1,2-Dichloroethane	ND	4.00	ug/kg							
Trichloroethene (TCE)	ND	4.00	ug/kg							
1,2-Dichloropropane	ND	4.00	ug/kg							
Dibromomethane	ND	4.00	ug/kg							
1,4-Dioxane	ND	80.0	ug/kg							
Bromodichloromethane	ND	4.00	ug/kg							
2-Chloroethyl vinyl ether	ND	40.0	ug/kg							
cis-1,3-Dichloropropene	ND	4.00	ug/kg							
4-Methyl-2-pentanone (MIBK)	ND	40.0	ug/kg							
Toluene	ND	2.00	ug/kg							
trans-1,3-Dichloropropene	ND	4.00	ug/kg							
1,1,2-Trichloroethane	ND	4.00	ug/kg							
Tetrachloroethene (PCE)	ND	4.00	ug/kg							
1,3-Dichloropropane	ND	4.00	ug/kg							
2-Hexanone (MBK)	ND	40.0	ug/kg							
Dibromochloromethane	ND	4.00	ug/kg							
1,2-Dibromoethane (EDB)	ND	4.00	ug/kg							
Chlorobenzene	ND	4.00	ug/kg							
1,1,1,2-Tetrachloroethane	ND	4.00	ug/kg							
Ethylbenzene	ND	2.00	ug/kg							
m,p-Xylene	ND	2.00	ug/kg							
o-Xylene	ND	2.00	ug/kg							
Styrene	ND	4.00	ug/kg							
Bromoform (Tribromomethane)	ND	4.00	ug/kg							

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Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ70928 - EPA 5030B										
Isopropylbenzene (Cumene)	ND	4.00	ug/kg							
Bromobenzene	ND	4.00	ug/kg							
1,1,2,2-Tetrachloroethane	ND	4.00	ug/kg							
1,2,3-Trichloropropane	ND	4.00	ug/kg							
n-Propylbenzene	ND	4.00	ug/kg							
2-Chlorotoluene	ND	4.00	ug/kg							
4-Chlorotoluene	ND	4.00	ug/kg							
1,3,5-Trimethylbenzene	ND	4.00	ug/kg							
tert-Butylbenzene	ND	4.00	ug/kg							
1,2,4-Trimethylbenzene	ND	4.00	ug/kg							
sec-Butylbenzene	ND	4.00	ug/kg							
1,3-Dichlorobenzene	ND	4.00	ug/kg							
4-Isopropyltoluene	ND	4.00	ug/kg							
1,4-Dichlorobenzene	ND	4.00	ug/kg							
1,2-Dichlorobenzene	ND	4.00	ug/kg							
n-Butylbenzene	ND	4.00	ug/kg							
1,2-Dibromo-3-chloropropane (DBCP)	ND	4.00	ug/kg							
1,2,4-Trichlorobenzene	ND	4.00	ug/kg							
Hexachlorobutadiene	ND	4.00	ug/kg							
Naphthalene	ND	4.00	ug/kg							
1,2,3-Trichlorobenzene	ND	4.00	ug/kg							
Surrogate: Dibromofluoromethane	*15.2*		ug/kg	*15.00*		*101*	*81-134*			
Surrogate: Toluene-d8	*14.9*		ug/kg	*15.00*		*99.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*14.1*		ug/kg	*15.00*		*93.9*	*78-122*			
LCS	**Prepared & Analyzed: 10/05/17**									
1,1-Dichloroethene	18.5	4.00	ug/kg	20.00		92.3	64-131			
Methyl tert-butyl ether (MTBE)	16.0	4.00	ug/kg	20.00		79.8	70-127			
Benzene	16.7	2.00	ug/kg	20.00		83.6	70-132			
Trichloroethene (TCE)	17.8	4.00	ug/kg	20.00		89.2	74-131			
Toluene	17.1	2.00	ug/kg	20.00		85.4	67-124			
Chlorobenzene	18.8	4.00	ug/kg	20.00		94.0	65-127			
Surrogate: Dibromofluoromethane	*14.1*		ug/kg	*15.00*		*94.3*	*80-120*			
Surrogate: Toluene-d8	*14.6*		ug/kg	*15.00*		*97.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*14.9*		ug/kg	*15.00*		*99.1*	*80-120*			
LCS Dup	**Prepared & Analyzed: 10/05/17**									
1,1-Dichloroethene	20.3	4.00	ug/kg	20.00		102	64-131	9.64	20	
Methyl tert-butyl ether (MTBE)	17.4	4.00	ug/kg	20.00		87.2	70-127	8.74	20	
Benzene	18.1	2.00	ug/kg	20.00		90.4	70-132	7.93	20	
Trichloroethene (TCE)	19.2	4.00	ug/kg	20.00		96.2	74-131	7.50	20	
Toluene	18.9	2.00	ug/kg	20.00		94.4	67-124	10.1	20	
Chlorobenzene	19.2	4.00	ug/kg	20.00		95.9	65-127	1.95	20	

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Attn: Mr. Desi Salgado Phone: (310) 854-6300 FAX:(310) 363-3739

File #:74354
Report Date: 10/12/17
Submitted: 10/05/17
PLS Report No.: 1710055

Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ70928 - EPA 5030B										
Surrogate: Dibromofluoromethane	*14.5*		ug/kg	*15.00*		*96.7*	*80-120*			
Surrogate: Toluene-d8	*15.0*		ug/kg	*15.00*		*99.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*15.1*		ug/kg	*15.00*		*101*	*80-120*			
Batch BJ71017 - EPA 3050B										
Blank	**Prepared & Analyzed: 10/09/17**									
Antimony	ND	2.00	mg/kg							
Arsenic	ND	2.00	mg/kg							
Barium	ND	1.00	mg/kg							
Beryllium	ND	1.00	mg/kg							
Cadmium	ND	1.00	mg/kg							
Chromium	ND	1.00	mg/kg							
Cobalt	ND	1.00	mg/kg							
Copper	ND	1.00	mg/kg							
Lead	ND	1.00	mg/kg							
Molybdenum	ND	1.00	mg/kg							
Nickel	ND	1.00	mg/kg							
Selenium	ND	2.00	mg/kg							
Silver	ND	1.00	mg/kg							
Thallium	ND	2.00	mg/kg							
Vanadium	ND	1.00	mg/kg							
Zinc	ND	5.00	mg/kg							
LCS	**Prepared & Analyzed: 10/09/17**									
Antimony	48.5	2.00	mg/kg	50.10		96.8	60-140			
Arsenic	49.7	2.00	mg/kg	49.66		100	80-120			
Barium	48.6	1.00	mg/kg	50.36		96.5	80-120			
Beryllium	9.89	1.00	mg/kg	10.02		98.7	80-120			
Cadmium	20.6	1.00	mg/kg	20.14		102	80-120			
Chromium	50.2	1.00	mg/kg	50.12		100	80-120			
Cobalt	20.8	1.00	mg/kg	19.94		104	80-120			
Copper	49.8	1.00	mg/kg	49.84		99.9	80-120			
Lead	50.8	1.00	mg/kg	49.96		102	80-120			
Molybdenum	19.1	1.00	mg/kg	19.98		95.5	80-120			
Nickel	51.7	1.00	mg/kg	50.02		103	80-120			
Selenium	48.2	2.00	mg/kg	50.30		95.9	80-120			
Silver	5.01	1.00	mg/kg	5.000		100	80-120			
Thallium	49.7	2.00	mg/kg	50.18		99.1	80-120			
Vanadium	19.5	1.00	mg/kg	20.12		97.0	80-120			
Zinc	52.2	5.00	mg/kg	50.36		104	80-120			
Matrix Spike **Source: 1710055-04**	**Prepared & Analyzed: 10/09/17**									

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Attn: Mr. Desi Salgado Phone: (310) 854-6300 FAX:(310) 363-3739

File #:74354
Report Date: 10/12/17
Submitted: 10/05/17
PLS Report No.: 1710055

Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ71017 - EPA 3050B										
Antimony	46.0	2.00	mg/kg	50.10	ND	91.9	60-140			
Arsenic	61.1	2.00	mg/kg	49.66	12.7	97.6	75-125			
Barium	271	1.00	mg/kg	50.36	171	199	75-125			V-2
Beryllium	8.73	1.00	mg/kg	10.02	ND	87.1	75-125			
Cadmium	20.0	1.00	mg/kg	20.14	1.10	94.1	75-125			
Chromium	74.4	1.00	mg/kg	50.12	21.3	106	75-125			
Cobalt	31.4	1.00	mg/kg	19.94	12.0	97.3	75-125			
Copper	75.3	1.00	mg/kg	49.84	26.2	98.4	75-125			
Lead	51.1	1.00	mg/kg	49.96	5.33	91.5	75-125			
Molybdenum	27.9	1.00	mg/kg	19.98	9.87	90.4	75-125			
Nickel	82.1	1.00	mg/kg	50.02	37.1	89.9	75-125			
Selenium	44.7	2.00	mg/kg	50.30	ND	88.9	75-125			
Silver	4.96	1.00	mg/kg	5.000	ND	99.2	75-125			
Thallium	43.0	2.00	mg/kg	50.18	ND	85.7	75-125			
Vanadium	78.3	1.00	mg/kg	20.12	41.0	185	75-125			V-2
Zinc	110	5.00	mg/kg	50.36	66.5	87.0	75-125			
Matrix Spike Dup **Source: 1710055-04**	**Prepared & Analyzed: 10/09/17**									
Antimony	44.3	2.00	mg/kg	50.10	ND	88.3	60-140	3.90	30	
Arsenic	59.0	2.00	mg/kg	49.66	12.7	93.4	75-125	4.42	30	
Barium	251	1.00	mg/kg	50.36	171	158	75-125	22.8	30	V-2
Beryllium	8.73	1.00	mg/kg	10.02	ND	87.1	75-125	0.0138	30	
Cadmium	19.5	1.00	mg/kg	20.14	1.10	91.5	75-125	2.76	30	
Chromium	72.1	1.00	mg/kg	50.12	21.3	101	75-125	4.34	30	
Cobalt	30.4	1.00	mg/kg	19.94	12.0	92.3	75-125	5.28	30	
Copper	75.5	1.00	mg/kg	49.84	26.2	98.8	75-125	0.445	30	
Lead	49.8	1.00	mg/kg	49.96	5.33	89.0	75-125	2.83	30	
Molybdenum	26.9	1.00	mg/kg	19.98	9.87	85.4	75-125	5.66	30	
Nickel	79.7	1.00	mg/kg	50.02	37.1	85.0	75-125	5.54	30	
Selenium	44.8	2.00	mg/kg	50.30	ND	89.0	75-125	0.103	30	
Silver	4.92	1.00	mg/kg	5.000	ND	98.4	75-125	0.804	30	
Thallium	42.4	2.00	mg/kg	50.18	ND	84.4	75-125	1.50	30	
Vanadium	77.0	1.00	mg/kg	20.12	41.0	179	75-125	3.62	30	V-2
Zinc	110	5.00	mg/kg	50.36	66.5	86.5	75-125	0.516	30	
Batch BJ71021 - EPA 7471A										
Blank	**Prepared & Analyzed: 10/09/17**									
Mercury	ND	0.100	mg/kg							
LCS	**Prepared & Analyzed: 10/09/17**									
Mercury	0.859	0.100	mg/kg	0.8358		103	80-120			
Matrix Spike **Source: 1710055-04**	**Prepared & Analyzed: 10/09/17**									

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Certificate of Analysis

Andersen Environmental, an EFI Global Company
5261 West Imperial Highway
Los Angeles, CA 90045

File #:74354
Report Date: 10/12/17
Submitted: 10/05/17
PLS Report No.: 1710055

Attn: Mr. Desi Salgado Phone: (310) 854-6300 FAX:(310) 363-3739

Project: 9836002796 - 418, 426, & 430 Firmin St., LA, CA 90026

Quality Control Data

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BJ71021 - EPA 7471A										
Mercury	0.898	0.100	mg/kg	0.8358	0.0640	99.8	75-125			
Matrix Spike Dup **Source: 1710055-04**	**Prepared & Analyzed: 10/09/17**									
Mercury	0.856	0.100	mg/kg	0.8358	0.0640	94.8	75-125	5.17	25	

Notes and Definitions

V-2	Out-of-Range recovery was due to sample Heterogeneity.
DO	Coeluting Peaks
NA	Not Applicable
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
MDL	Method Detection Limit
PQL	Practical Quantitation Limit

Environmental Laboratory Accreditation Program Certificate No. 1131, Mobile Lab No. 2534, LACSD No. 10138

Authorized Signature(s)

EFI Global
Engineering, Fire & Environmental Services

EFI Global
5261 West Imperial Highway, Los Angeles CA 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

1710 033

EFI_01

Analytical Laboratory: Positive Lab Service		Geotracker Global ID:	
Project Number:	9836002796	NA	
Project Address:	418, 426, and 430 Firmin Street, Los Angeles, California 90026		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: VOCs, EPA Method 8260B	Method: PAHs, EPA Method 8270C	Method: Metals, EPA Method 6010B/7470A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: TPH full chain, EPA Method 8015M	Method: ERPH, EPA Method 8015M	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: Acetate Liner	Container: VOAs (by EPA 5035)	Container: Summa Canister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
1	B1-S-2					X							10/04/17	8:10			X							X				X				X			
2	B1-S-5					X							10/04/17	8:15												X		X				X			
3	B1-S-10					X							10/04/17	8:20												X		X				X			
4	B1-S-15					X							10/04/17	8:25												X		X				X			
5	B1-S-20					X							10/04/17	8:30												X		X				X			
6	B2-S-2					X							10/04/17	8:50	X		X							X				X				X			
7	B2-S-5					X							10/04/17	8:55												X		X				X			
8	B2-S-10					X							10/04/17	9:00												X		X				X			
9	B2-S-15					X							10/04/17	9:10												X		X				X			
10	B2-S-20					X							10/04/17	9:20			X PS							X DS		X		X				X			
11	B3-S-2					X							10/04/17	10:45												X		X				X			
12	B3-S-5					X							10/04/17	10:50												X		X				X			
13	B3-S-10					X							10/04/17	10:55			X							X				X				X			
14	B3-S-15					X							10/04/17	11:05												X		X				X			
15	B3-S-20					X							10/04/17	11:15			X							X				X				X			
16	B4-S-2					X							10/04/17	12:20												X		X				X			
17	B4-S-5					X							10/04/17	12:25												X		X				X			
18	B4-S-10					X							10/04/17	12:30			X							X				X				X			
19	B4-S-15					X							10/04/17	12:40												X		X				X			
20	B4-S-20					X							10/04/17	12:55												X		X				X			

Relinquished by	Date	Time	Received by	Date	Time	Remarks
	10/5/17	1:35		10/5/17	1:35	Sample condition (circle): Chilled Intact
	10/5/17	2:30		10.5.17	2:30	2.3°

17W0088

EFI Global
Engineering, Fire & Environmental Services

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Chain-of-Custody Record

EFI_02

Analytical Laboratory: Positive Lab Service		Geotracker Global ID:	
Project Number:	9836002796	NA	
Project Address:	418, 426, and 430 Firmin Street, Los Angeles, California 90026		
Project Manager:	Desi Salgado		
Sampled by:	Desi Salgado		
Phone:	310-854-6300		
Email:	desi_salgado@efiglobal.com		

Number	Sample ID	Lab ID	Type: Grab	Type: Composite	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time
1	B5-S-2					X							10/04/17	13:20
2	B5-S-5					X							10/04/17	13:25
3	B5-S-10					X							10/04/17	13:30
4	B5-S-15					X							10/04/17	13:40
5	B5-S-20					X							10/04/17	13:50
6	B6-S-2					X							10/04/17	15:50
7	B6-S-5					X							10/04/17	15:55
8	B6-S-10					X							10/04/17	16:00
9	B6-S-15					X							10/04/17	16:15
10	B2-S-25					X							10/4/17	9:45
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

Method: VOCs, EPA Method 8260B	PAHs, EPA Method 8270C	Metals, EPA Method 6010B/7470A	Lead, EPA Method 6010B	Arsenic, EPA Method 6010B	STLC Lead EPA Method	TCLP Lead EPA Method	PCBs, EPA Method 8082	TPH full chain, EPA Method 8015M	ERPH, EPA Method 8015M	Composite	Hold	Container: 4- or 8-ounce Glass	Container: Acetate Liner	Container: VOAs (by EPA 5035)	Container: Summa Cannister	Container: Tedlar Bag	Turnaround Time: Normal / Standard	Turnaround Time: 72 Hour	Turnaround Time: 48 Hours	Turnaround Time: 24 Hours
											X		X								
											X		X								
											X		X								
		X						X					X								
											X		X								
											X		X								
		X						X					X								
											X		X								
											X		X								
		X						X					X								

Relinquished by	Date	Time	Received by	Date	Time
	10/5/17	1:35		10/5/17	1:35
	10/5/17	2:30		10.5.17	2130

Remarks

Sample condition (circle): Chilled Intact

2.3°C

GeoConcepts INC
Geology - Geotechnical Engineering

PRELIMINARY GEOLOGIC AND GEOTECHNICAL ENGINEERING INVESTIGATION

Five-Seven Story Residential Building over Two-Levels Parking

418, 426 & 430 Firmin Street
Los Angeles, CA

for

Decro Corporation
Attn: Whitney Weller
400 Corporate Point, Ste. 300
Culver City, California 90230

Project 5462

May 8, 2018

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PRELIMINARY GEOLOGIC AND GEOTECHNICAL ENGINEERING INVESTIGATION

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INTRODUCTION

This report presents the results of a Preliminary Geologic and Geotechnical Engineering Investigation on a portion of the subject property. The purpose of this investigation has been to ascertain the subsurface conditions pertaining to the proposed project. The work performed for the project included reconnaissance mapping, description of earth materials, determining geologic structure, obtaining representative samples of earth materials, laboratory testing, engineering analyses, and preparation of this report. Results of the project include findings, conclusions, and appropriate recommendations.

SCOPE

The scope of this investigation included the following:

- Review of preliminary plans by Dahlin Group.
- Review of 14 test pit explorations and one boring. Explorations were backfilled with the excavated materials but not compacted.
- Preparation of the enclosed Geologic Map and Cross Sections, (see Appendix I).
- Sampling of representative earth materials, laboratory testing, and engineering analyses (see Appendix II).
- Review of referenced materials and available public reports at the City of Los Angeles (see Appendix V).
- Presentation of findings, conclusions, and recommendations for the proposed project.

Rosell Surveying & Mapping, Inc. prepared the topographic base map utilized in this investigation.

The scope of this investigation is limited to the project area explored as depicted on the Geologic Map. This report has not been prepared for use by other parties or for purposes other than the proposed project. GeoConcepts, Inc. should be consulted to determine if additional work is required when our work is used by others or if the scope of the project has changed. If the project is delayed for more than one year, this office should be contacted to verify the current site conditions and to prepare an update report.

PROPOSED DEVELOPMENT

It is our understanding that the sites will be developed with a five to seven story residential building over two parking levels, one partial subgrade. Anticipated foundations will range from 3 to 5 kips per lineal foot and 300-500 kips for column foundations. The proposed development is depicted on the enclosed Geologic Map and Cross Sections.

Final plans have not been prepared and await the conclusions and recommendations of this investigation. These plans should be reviewed by GeoConcepts, Inc. to ensure that our recommendations have been followed.

SITE DESCRIPTION

Location and Description

Access to the properties is via Firmin Street from Temple Street (see Location Map in Appendix I). The sites at 418 and 430 Firmin Street are developed with one-story single-family residences. The site at 426 Firmin Street is vacant and generally unimproved. The pads have a light to moderately dense growth of vegetation consisting of grasses, shrubs and trees.

Adjacent sites to the northeast, south, southeast, and southwest have been developed with single family residences and retaining walls. The adjacent structures to the northeast, south, and southwest are more than six feet from the property lines. The adjacent structure to the southeast is about one foot from the property line. The adjacent retaining walls with northwest orientations are located along the property lines to the northeast and southwest, are approximately four to six feet in height, and retain approximately four to six feet of fill and soil.

Topography

The properties essentially consist of near-level pads with ascending slopes to the south and descending slopes to the north. Maximum topographic relief on-site is about 15 feet. These slopes have a general gradient of 4:1 or less, (horizontal to vertical). Some slopes are partially supported by retaining walls. Details of the topography are depicted on the Location Map and Geologic Map in Appendix I.

Drainage

Surface water at the site consists of direct precipitation onto the property and runoff from surrounding slopes to the south. Much of this water drains as sheet flow down descending slopes to low-lying areas, offsite and/or to the street. The residences are partially provided with roof gutters and downspouts. No area drains and/or subdrain outlet pipes were observed on the property.

Groundwater

No active surface groundwater seeps or springs were observed on the subject site. The subsurface exploration did not encounter groundwater to a depth of 40 feet. Due to the elevated nature of the property, groundwater is not anticipated to pose a problem to the proposed project. Seasonal fluctuations of groundwater levels may occur by varying amounts of rainfall, irrigation and recharge.

FIELD EXPLORATION

The scope of the field exploration was developed based on the preliminary plans of the proposed development available at the time of the exploration and was limited to the area of the proposed development. The locations of the explorations are depicted on the Geologic Map and Cross Sections. The field exploration was limited by existing structures, hardscape, and/or underground utilities on the sites.

The field exploration of the site was conducted on November 20 and 21, 2017. The geotechnical and geologic conditions were mapped by a representative of this office (refer to Exploration Logs). Subsurface exploration was performed by a conventional drill rig and manual excavation into the underlying earth materials. Explorations were excavated to a maximum depth of 40 feet. Down-hole observation of the earth materials exposed in the explorations was performed by the project geologist where subsurface conditions were deemed to be safe. All explorations were backfilled and tamped upon completion of down-hole observation. However, some settlement within exploration areas should be anticipated.

Detailed descriptions of the geologic materials encountered during the field exploration are provided in the Exploration Logs and Boring Logs in Appendix I.

Undisturbed and bulk samples representative of the earth materials were obtained and transported to our laboratory. Undisturbed Modified California (MC) samples were obtained within the explorations through the use of a thin-walled steel hand-held sampler with successive blows of the Kelly bar. MC samples were retained in brass rings of two and one-half inches in diameter and one inch in height. The samples were transported in moisture tight containers. The results of the laboratory testing and a summary of the test procedures are included within Appendix II.

SUMMARY OF FINDINGS

Previous Work

The subject properties were graded and developed circa 1920-1940 and prior to the City of Los Angeles Grading Ordinance. No geology and geotechnical engineering reports of the tract grading or foundation design for the development were available at the City of Los Angeles, Department of Building and Safety.

Stratigraphy

The site is underlain by marine sedimentary rocks of Miocene time, which are covered by Quaternary (Q) earth materials and artificial fill. The earth materials encountered on the subject property are briefly described below. Approximate depths and more detailed descriptions are given in the enclosed Exploration Logs (see Appendix I).

Artificial Fill (Af)

Artificial fill was encountered on the subject site. Fill materials were presumably placed during pad grading and construction of the residences. Fill was encountered in twelve of the test pits ranging from one to more than two feet in thickness. The contact between the fill and the underlying soil or bedrock was exposed within the exploratory test pits. Fill generally consists of sand to clayey silt with sand. The approximate limit of the existing fill is shown on the attached Geologic Map and Cross Sections.

Native Soil (Qs)

Native soil was encountered in all of the explorations and the boring, and varied between one and four feet in thickness. The native soil consists of dark brown to black silty clay. The soil was derived from weathering of the underlying bedrock materials.

Bedrock (Tp)

Bedrock exposed on-site and underlying the Quaternary deposits is assigned to the Puente Topanga Formation of Miocene time. It consists of shale, siltstone, and sandstone beds that are essentially diatomaceous, tan to orange to dark gray, massive to thinly bedded, discontinuous, locally well cemented, moderately to slightly weathered, moderately to poorly fractured, and dense to very dense. The contact between the artificial fill, soil, and bedrock is approximately located on the Geologic Map and Cross Sections.

Excavation Characteristics

Subsurface exploration was performed through the use of hand labor and flight auger drill rig excavating into fill, soil, and bedrock. The bedrock encountered during the exploration consists of sedimentary rock. At the site, bedrock was observed to be moderately cemented and slightly fractured. Although excavation difficulty is considered normal, it should be noted that the bedrock is a layered formation and hard or well cemented bedrock may be encountered. Typically, the hardness of bedrock increases with depth. If hard or well cemented bedrock is encountered, coring or the use of heavy jack hammers may be necessary.

Geologic Structure

The local area has been uplifted and tilted by past tectonic forces forming an east-west trending homocline that is inclined to the south. Locally, the onsite bedrock structure is rather undulating across the entire property and similar to the regional structure. It has a general northeast to east-west strike and south dips ranging between 25 and 55 degrees. No dominant patterns of adversely orientated fractures or joints were observed during the subsurface investigation.

Critical anticipated bedrock structure is depicted on Geologic Cross Sections. Preliminary geologic data indicates the proposed development is favorable from the standpoint of geology and geotechnical engineering, provided the recommendations contained herein are followed and maintained.

Landslides

Landslides are a mass wasting phenomenon in mountainous and hillside areas which include a wide range of movements. In Southern California common slope movements include shallow surficial slumps and flows, deep-seated rotational and translational bedrock failures, and rock falls. Landslides occur when the stability of the slopes change to an unstable condition resulting from a number of factors. Common natural factors include the physical and/or chemical weathering of earth materials, unfavorable geologic structure relative to the slope geometry, erosion at the toe of a slope, and precipitation. These factors may be further aggravated by human activities such as excavations, removal of lateral support at the toe of a slope, surcharge at the top of a slope, clearing of vegetation, alteration of drainage, and the addition of water from irrigation and leaking pipes.

The subject site is relatively flat with very little topography which precludes the potential for landslides and/or other hazards typically associated with hillside properties.

Seismic Hazards

Earthquake Faults

The Alquist-Priolo Earthquake Fault Zoning (AP) Act was passed into law following the destructive February 9, 1971 San Fernando earthquake. The intent of the Act is to increase public safety by reducing the siting of most structures for human occupancy across an active fault. The Act only addresses the hazard of surface fault rupture and is not directed toward other earthquake hazards. The property is not located within an Alquist-Priolo Earthquake Fault Zone. The general locations of major faults within Southern California are depicted on a fault map provided by the USGS in Appendix I.

Active Faults

The following active faults are capable of producing seismic waves (ground shaking) on the subject property. A summary description of the closest active faults and potentially active faults to the site are described herein and labeled by number on the map below. An active fault, as defined by the State Mining and Geology Board, is one, which has “had surface displacement within Holocene time (about the last 11,000 years)”.

The San Andreas Fault zone (42) is the dominant active fault in California. Geologic studies show that over the past 1,400 to 1,500 years large earthquakes have occurred at about 150-year intervals on the southern San Andreas Fault. It consists of numerous subparallel faults of varied lengths in a zone generally 0.3 to 1.5 km wide in Southern California. The dip of the fault is near vertical and the sense of motion is right lateral. Historically, the 1857 Fort Tejon earthquake with an estimated magnitude of 7.9 ruptured the ground surface from the vicinity of Cholame (near Paso Robles) to somewhere between the Cajon Pass and San Gorgonio Pass (Wrightwood), approximately 200 miles. Studies of offset stream channels indicate that as much as (29) feet of movement occurred in 1857. The fault extends from the Gulf of California northward to the Cape Mendocino area where it continues along the ocean floor, approximately 750 miles in length.

The Northridge earthquake occurred on January 17, 1994, in the San Fernando Valley. The epicenter was about 1 mile south-southwest of Northridge at a focal depth of 12 miles. The surface wave magnitude was issued by the National Earthquake Information Center at Mw=6.7. This event occurred on a previously unrecognized south-dipping blind reverse fault without surface rupture. This earthquake produced the strongest ground motions ever instrumentally recorded in an urban setting in North America. Damage was wide-spread with sections of major freeways collapsed include some parking structures and office buildings. Common surface disruptions included buckled curbs and sidewalks, fissured concrete and asphalt, and rupture of utility lines which are generally aligned in northwest and east-west directions. Shattered ridges were reported along Mulholland Drive in the Sherman Oaks area, consisting of intense ground disturbances associated with strong vibratory ground motions within the north trending ridges underlain by shale of the Lower Modelo formation.

The Whittier-Elsinore fault zone (60) consists of several subparallel, overlapping and en echelon fault strands in a zone up to 1.2 km wide. It extends nearly 125 miles from the Mexican border to the northern edge of the San Fernando Valley. Seismicity includes the Whittier Narrows earthquake of October 1, 1987 with a magnitude of 5.9 and an epicenter in the city of Rosemead. This earthquake occurred on a previously unknown and concealed thrust fault. There was no reported surface rupture from the earthquake. Also, numerous close and scattered small earthquakes have occurred in historic time near and along the fault.

The San Fernando fault (45) consists of five major en echelon strands at least 9.5 miles in length. The "San Fernando" earthquake of February 9, 1971 produced a magnitude of Mw 6.5 at a depth of 8.4 km along an east west trending reverse fault with a northerly dip. The length of the surface rupture was about 9.5 miles and ground shaking lasted for approximately 60 seconds. The earthquake ruptured the northwestern end of the Sierra Madre Fault zone forming the San Fernando Fault. Major damage included the Olive View and Veterans Administration Hospitals and collapse of freeway overpasses. Landslides occurred in the Upper Lake area of Van Norman Lakes. Additionally the Van Norman Dam and the Pacoima Dam were severely damaged.

The eastern portion of the Santa Susana fault (52) ruptured during the 1971 San Fernando Earthquake. The Santa Susana fault consists of several strands in a zone as wide as 1 km. It generally strikes from north 75 degrees west to north 50 degrees east and dips to the north. The fault is a high angle reverse fault. The fault appears to have been generated by northeast-southwest oriented compressional stress.

The Newport-Inglewood fault zone (31) consists of several strands that extend from offshore by Laguna Beach to either merge with or be truncated by the Malibu-Santa Monica fault zone near Beverly Hills. The fault has a length of about 45 miles. It was the source of the "Long Beach" earthquake, which occurred on March 10, 1933 with a magnitude of 6.3. Numerous small earthquakes have occurred in historic time along and near the fault zone. The fault zone is easily observed by an alignment of hills and mesas including Cheviot Hills, Baldwin Hills, Rosecrans Hills, Dominguez Hills, Signal Hill, Reservoir Hill, Alamitos Heights, Landing Hill, Bolsa Chica Mesa, and Newport Mesa.

In June 1995, two portions of the Malibu Coast fault zone (27) were reclassified as active fault zones by the State of California. On August 16, 2007, the fault zone near the east side of Malibu Bluff Park was removed from the State of California Earthquake Fault Zone map by the State of California. The east west trending Malibu Coast fault consists of several subparallel strands in a zone as wide as 0.5 km, with a length of at least 17 miles. It strikes east west and dips (45) to (80) degrees to the north. The Malibu Coast fault has the potential to produce a large Maximum Credible Peak and Repeatable Acceleration on the subject property. The duration of the Malibu Coast fault is estimated at (11) seconds assuming fault end nucleation and unidirectional rupture propagation, (Bolt, 1981). The Malibu Coast fault is thought to be part of other faults such as the Santa Monica fault and Hollywood fault that separate the Transverse Ranges on the north from the Peninsula Range on the south. Two Malibu Earthquakes occurred with Magnitudes of M_L 5.2 and M_L 5.0 on January 1, 1979 and January 18, 1989, respectively. It was reported that only minor damage occurred in the areas closest to the epicenter.

The Hollywood fault zone (22) extends along the base of the Santa Monica Mountains. This fault was added to the list of active fault by the State of California in 2014. Generally, the Hollywood fault extends eastward for a distance of 15 km through Beverly Hills, West Hollywood, and Hollywood to the Los Angeles River. The fault is primarily expressed at the ground surface by scarp-like features. This is a left–reverse fault with an estimated slip rate between 0.33 mm/yr and 0.75 mm/yr, (Petersen and Wesnousky 1994).

The Raymond fault (39) is a combination fault with reverse and left slip movement that acts as a groundwater barrier within the densely populated San Gabriel Valley. The activity of the fault is attested to by the numerous geomorphic features found along its entire length of approximately 14 miles. Scattered small earthquakes have occurred north of the fault trace. It may be the source of the 1855 Los Angeles earthquake. The Raymond fault is an east-trending fault made up of other faults such as the Hollywood and Santa Monica faults that separate the Transverse Ranges on the north form the Peninsula Range on the south.

The Sierra Madre fault zone (53) is often divided into five main segments; Vasquez Creek fault, Clamshell fault (10), Sawpit Canyon fault (10), Duarte fault and the Cucamonga fault (14). The Sierra Madre earthquake of June 28, 1991 (Mw5.8) was in the San Gabriel Mountains. An estimated 33.5 million dollars of damage has been reported. The Sierra Madre fault zone is about 75 km long. It's a thrust fault system along the south edge of the San Gabriel Mountains. The east end of the Sierra Madre fault zone intersects the San Jacinto fault and the San Andreas Fault. The 1971 San Fernando earthquake occurred on the San Fernando-Sunland segment of the Sierra Madre fault zone.

The San Gabriel fault (46) consists of several en echelon fault strands in a zone approximately 0.5 km wide, with a length of about 90 miles. The fault trends northwestward and subparallel to the San Andreas Fault. As of March 1, 1988, a portion of the Newhall segment of the fault zone was reclassified as an active fault. Fault activity has been dated between 1550 and 3500 years before present within the Newhall segment. The youngest ground rupture event has broken alluvial beds to within five feet of the ground surface. Geologic evidence suggests 38 miles of right lateral offset has occurred between 14 million and 3 million years ago and may have functioned as an ancestral branch of the San Andreas Fault. Recent studies suggest that the major strike slip movement has become inactive and dip slip movement is active at the present

time.

Potentially Active Faults

A potentially active fault, as defined by the State Mining and Geology Board, is one, which has had surface displacement during Quaternary time (last 1.6 million years). "These faults are those based on available data along which no known historical ground surface ruptures or earthquakes have occurred. These faults, however, show strong indications of geologically recent activity". The following list provides potentially active faults that are capable of producing seismic waves (ground shaking) on the property.

The Santa Monica fault (50) extends east from the coastline in Pacific Palisades through Santa Monica and West Los Angeles and merges with the Hollywood fault. Several local geologists believe portions of the Santa Monica fault zone are active. Currently, it is listed by the State of California as a potentially active fault. Portions of the fault zone may change to "active" and be placed within the Alquist-Priolo Earthquake Fault Zone as additional geologic reports are submitted to the State containing evidence of Holocene activity. The Santa Monica fault consists of one or more fault strands, with a poorly known geometry. Generally, the fault strikes northeast 60 to 80 degrees and dips 45 to 65 degrees northwest at depth with a few near vertical surface traces. The length of the fault is at least 25 miles. The composite local mechanism of fault displacement is a reverse left lateral along the Santa Monica-Hollywood-Raymond fault zone. The Santa Monica and Hollywood faults may be part of a larger fault system that includes Malibu Coast, Raymond and Cucamonga fault system. This fault zone forms the central portion of a major tectonic boundary separating the east west trending Transverse Ranges province to the north from the northwest trending Peninsular Ranges province to the south.

The Benedict Canyon fault zone trends eastward through the Santa Monica Mountains. The fault may be part of the Hollywood-Santa Monica-Raymond fault system. The activity of the fault is based on offsets in groundwater bearing sediments that correlate with steep dipping gravity gradients. The fault extends through Universal City and along the north side of the eastern part of the Santa Monica Mountains.

The Simi fault (54) consists of a single strand that bifurcates at the western end. Generally, it strikes north 70-80 degrees east and dips 60 to 75 degrees north with a length of about 31-km.

The Mission Hills fault (30) is an east west trending fault with a length of about 9 km. The fault is presumed to be a single strand that strikes north 80 degrees east to east west and dips about 80 degrees to the north.

The Chatsworth fault (8) is a reverse fault which juxtaposes Cretaceous Chatsworth formation and Paleocene Martinez formation over Miocene Modelo formation within the San Fernando Valley.

The Palos Verdes Hills fault (35) consists of several en echelon strands locally in a zone as wide as 2 km with a length of 50 miles. It strikes north between 20 and 60 degrees west with dips of 70 degrees to the southwest.

Seismic Effects

During an earthquake there are several primary geologic hazards such as ground rupture, ground shaking, landslides, and liquefaction that can adversely affect property, structures, and improvements. On hillside properties, the potential exists for landsliding from ground shaking which may adversely affect property, structures, and improvements. Properties near and along the coastline may potentially be affected by inundation due to tsunamis generated from a seismic event. The State of California has prepared maps that detail areas which may require assessment for ground rupture, landsliding and/or liquefaction. Strong ground shaking is the primary hazard that causes damage from earthquakes and these areas have been zoned with a high level of seismic shaking hazard. The historical earthquake record in Southern California is less than 200 years; therefore, potential damage from a seismic event is not limited areas that have experienced damage in the past. Based on the above discussion, earthquake insurance with building code upgrades is suggested.

There are several active and/or potentially active faults that could possibly affect the site within Los Angeles County. Although all of Southern California is within a seismically active region, some areas have a higher potential for seismic damage than others. The current scientific technology does not provide for accurate prediction of the time, location, or magnitude of an earthquake event.

It should be understood that the following discussion is an evaluation of risk and degree of potential damage to a structure if a fault were to rupture on or near the site and does not imply that a fault may or may not be present beneath the site. An assessment of damage to the structure is based on the Modified Mercalli Intensity Scale which is correlated to observed damage from seismic events. Intensity/damage associated with an earthquake is not directly correlated to magnitude. For a given magnitude of an earthquake, the intensity/damage to a structure may vary depending on the subsurface earth materials, type of fault rupture, hypocenter depth, and local building practices in effect during the construction of a structure.

An evaluation of the seismic effects on a property is designed to provide the client with rational and believable seismic data that could affect the property during the lifetime of the proposed improvements. The minimum design acceleration for a project is listed in the Building Code. It is recommended that the structural design of the proposed project be based on current design and acceleration practices of similar projects in the area. The project structural designer should review and verify all of the seismic design parameters prior to utilizing the information for the design.

Ground Rupture

Ground rupture is the result of movement from an active fault. A fault is a fracture in the crust of the earth along which rocks on one side have moved relative to those on the other side. No known active fault is mapped on the subject site.

Ground Shaking

Ground shaking caused by an earthquake is likely to occur at the site during the lifetime of the development due to the proximity of several active and potentially active faults. Generally, on a regional scale, quantitative predictions of ground motion values are linked to peak acceleration and repeatable acceleration, which are a response to earthquake magnitudes relative to the fault distance from the subject property. Southern California major earthquakes are generally the result of large-scale earth processes in which the Pacific plate slides northwestward relative to the North American plate at about 2 inches/year.

The potential for lurching, surface manifestations, landslides, and topographic related features from ground/seismic shaking can occur almost anywhere in Southern California. Proper maintenance of properties can mitigate some of the potential for these types of manifestations, but the potential cannot be completely eliminated. Many structures were built before earthquake codes were adopted; others were built according to codes formulated when less was known about the intensity of near-fault shaking. Therefore, the margin of safety is difficult to quantify.

A publicly available computer program provided by the United States Geological Survey (USGS) was utilized for the probabilistic prediction of peak horizontal ground acceleration from digitized design maps of Maximum Considered Earthquake (MCE) ground response. A summary of the seismic design parameters is provided in Appendix III. The project structural designer should verify all of the input parameters and review all of the resulting seismic design parameters prior to utilizing the information for the design.

Tsunamis & Seiches

Properties located along the coastline have a potential for inundation from a tsunami. Tsunamis are ocean waves produced by sudden water displacement resulting generally from offshore earthquakes, large submarine landslides or submarine volcanic eruptions. Once generated, a tsunami can travel thousands of miles at high speeds up to 400 miles per hour. However, the topography of the sea floor and Channel Islands may minimize the risk of a large tsunami generated from a distant offshore earthquake impacting the Southern California coast.

The 1964 Alaskan Earthquake produced sea waves of less than four feet in the Los Angeles Harbor. The 1960 Chilean Earthquake produced sea waves of about five feet at Redondo Beach. Little data exists to evaluate the potential for a local tsunami generated off the coast of Southern California. Historically, two documented tsunamis have been generated off the coast of Southern California. The 1812 Santa Barbara Earthquake was reported to generate (10) to (12) foot high sea waves at Gaviota. The 1927 Point Arguello Ms 7.3 Earthquake produced run-up heights of (5) feet at Port San Luis.

The lower threshold for tsunami development is considered to be about a magnitude of M6.5. Offshore faults and the Santa Monica faults appear capable of producing a magnitude of M6.5 earthquake and conceivably producing a sea wave. In their 2003 study, Evaluation of Tsunami Risk to Southern California Coastal Cities, Legg et al modeled tsunami propagation and run-up from a potential M7 to M7.4 magnitude earthquake on the offshore Catalina fault near Santa

Catalina Island. The report concluded that run-up heights along the coast of Southern California could be on the order of 2 to 4 meters. Their stated recurrence times are on the order of a few hundred years for a large earthquake on offshore faults.

Seiches are waves with low-energy within reservoirs, lakes, and bays that are generally produced by strong earthquake shaking. The proposed project is not located near a reservoir, lake, or bay; therefore, the potential for damage to the site from a seiche is nil.

Earthquake Induced Landslides

The State of California has prepared Seismic Hazard Zone Reports to regionally map areas of potential increased risk of permanent ground displacement based on historic occurrence of landslide movement, local topographic expression, and geological and geotechnical subsurface conditions. The maps may not identify all areas that have potential for earthquake-induced landsliding, strong ground shaking, or other earthquake-related geologic hazards. The subject site is not located within an earthquake-induced landslide hazard zone on the State of California Seismic Hazard Map.

The subject site is relatively flat with very little topography which precludes the potential for landslides and/or other hazards typically associated with hillside properties.

Liquefaction

The State of California has prepared Seismic Hazard Zone Reports to regionally map areas where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacement. The maps may not identify all areas that have potential for liquefaction, strong ground shaking, and other earthquake and geologic hazards. The subject site is not located within a liquefaction hazard zone on the State of California Seismic Hazard Zone Map. If liquefaction analysis is desired or required please contact this office for a proposal.

Liquefaction is a process by which sediments below the water table temporarily lose strength and behave as a viscous liquid rather than a solid. The types of sediments most susceptible are clay-free deposits of sand and silts; occasionally gravel liquefies. Liquefaction can occur when seismic waves, primarily shear waves, pass through saturated granular layers distorting the granular structure, and causing loosely packed groups of particles to collapse. These collapses increase the pore-water pressure between grains if drainage cannot occur. If the pore-water pressure rises to a level approaching the weight of the overlying soil, the granular layer temporarily behaves as a viscous liquid rather than a solid.

In the liquefied condition, soil may deform with little shear resistance; deformations large enough to cause damage to buildings and other structures are called ground failures. The ease with which a soil can be liquefied depends primarily on the looseness of the material, the depth, thickness and areal extent of the liquefied layer, the ground slope and the distribution of loads applied by buildings and other structures.

Liquefaction induced ground deformations (detailed below) will have an effect on the proposed and existing development that can result in significant structural damage, collapse or partial collapse of a structure, especially if there is significant differential settlement or lateral spreading between adjacent structural elements. Even without collapse, significant settlement or lateral spreading could result in significant structural damage including, but not limited to, blocked doors and windows that could trap occupants.

Surface Manifestations

The determination of whether surface manifestation of liquefaction (such as sand boils, ground fissures etc.) will occur during earthquake shaking at a level-ground site can be made using the method outlined by Ishihara (1985). It is emphasized that settlement may occur, even with the absence of surface manifestation. Youd and Garris (1994 and 1995) evaluated the Ishihara method and concluded that the method is not appropriate for level ground sites subject to lateral spreading and/or ground oscillation.

Lateral Spreads

Whereas the potential for flow slides may exist at a building site, the degradation in undrained shear resistance arising from liquefaction may lead to limited lateral spreads (of the order of feet or less) induced by earthquake inertial loading. Such spreads can occur on gently sloping ground or where nearby drainage or stream channels can lead to static shear stress biases on essentially horizontal ground (Youd, 1995). At larger cyclic shear strains, the effects of dilation may significantly increase post liquefaction undrained shear resistance. However, incremental permanent deformations will still accumulate during portions of the earthquake load cycles when low residual resistance is available. Such low resistance will continue even while large permanent shear deformations accumulate through a ratcheting effect. Such effects have recently been demonstrated in centrifuge tests to study liquefaction induced lateral spreads, as described by Balakrishnan et al. (1998). Once earthquake loading has ceased, the effects of dilation under static loading can mitigate the potential for a flow slide.

It is clear from past earthquakes that damage to structures can be severe, if permanent ground displacements on the order of several feet occur. However, during the Northridge earthquake significant damage to building structures (floor slab and wall cracks) occurred with less than one (1) foot of lateral spread. The complexities of post-liquefaction behavior of soils noted above, coupled with the additional complexities of potential pore water pressure redistribution effects and the nature of earthquake loading on the sliding mass, lead to difficulties in providing specific guidelines for lateral spread evaluations.

Seismically Induced Settlements

Seismic settlement occurs when cohesionless soils densify as result of ground shaking. Typically seismically induced settlement is greatest in loose cohesionless sands. Lee and Albaisa (1974) and Yoshimi (1975) studied the volumetric strains (or settlements) in saturated sands due to dissipation of excess pore pressures generated in saturated granular soils by the cyclic ground motions. The volumetric strain, in the absence of lateral flow or spreading, results in

settlement. Liquefaction-induced settlement could result in collapse or partial collapse of a structure, especially if there is significant differential settlement between adjacent structural elements. Even without collapse, significant settlement could result in blocked doors and windows that could trap occupants.

CONCLUSIONS

1. Based on the results of this investigation and a thorough review of the proposed development, as discussed, the project is suitable for the intended use providing the following recommendations are incorporated into the design and subsequent construction of the project. Also, the development must be performed in an acceptable manner conforming to building code requirements of the controlling governing agency.

2. Based on the State of California Seismic Hazard Maps, the subject site is not located within a liquefaction or earthquake-induced landslide hazard zone.

3. The SITE CLASS based on California Building Code is D.

4. Based upon field observations, laboratory testing and analysis, the bedrock encountered in the explorations has sufficient strength to support the development.

RECOMMENDATIONS

Specific

1. The proposed residential building should be supported on foundations embedded into competent bedrock.
2. The proposed garage slab on grade should be supported on bedrock or compacted fill.
3. The soils chemistry results should be incorporated into the design of the proposed project.
4. The property owner shall maintain the site as outlined in the Drainage and Maintenance Section.

Building Setbacks

The construction of buildings and structures on or adjacent to slopes steeper than 3:1 (horizontal to vertical) in gradient shall be setback from the slopes in accordance with the requirements of the applicable governmental agency.

In general, all foundations on or adjacent to a descending slope shall be located a distance of one-third of the vertical height of the slope (H/3) to provide vertical and lateral support for the foundation. This distance is measured horizontally from the face of the foundation to the face of the bearing material. This horizontal distance does not need to exceed 40 feet. Where the slope is steeper than 1:1 (horizontal to vertical), the required setback shall be measured from an imaginary plane at 45 degrees to the horizontal, projected upward from the toe of the slope.

In general, buildings and structures on or adjacent to an ascending slope shall be located a distance of one-half of the vertical height of the slope (H/2) to provide sufficient protection from slope drainage, erosion, and shallow failures. This distance is measured horizontally from the face of the building/structure to the toe of the slope. This horizontal distance does not need to exceed 15 feet. Where the slope is steeper than 1:1 (horizontal to vertical), the toe is considered to be at the intersection of a horizontal plane from the top of the foundation and an imaginary plane tangent to the slope at 45 degrees to the horizontal.

The construction of swimming pools on or adjacent to slopes shall maintain setback distances equal to one-half of the setback distances for buildings and foundations. Swimming pools on or adjacent to a descending slope shall be located a distance of one-sixth of the vertical height of the slope (H/6). This horizontal distance does not need to exceed 20 feet. Swimming pools on or adjacent to an ascending slope shall be located a distance of one-fourth of the vertical height of the slope (H/4). This horizontal distance does not need to exceed (7½) feet.

Drainage and Maintenance

Maintenance of properties must be performed to minimize the chance of serious damage and/or instability to improvements. Most problems are associated with or triggered by water. Therefore, a comprehensive drainage system should be designed and incorporated into the final plans. In addition, pad areas should be maintained and planted in a way that will allow this drainage system to function as intended. The property owner shall be fully responsible for dampness or water accumulation caused by alteration in grading, irrigation or installation of improper drainage system, and failure to maintain drain systems. The following are specific drainage, maintenance, and landscaping recommendations. Reductions in these recommendations will reduce their effectiveness and may lead to damage and/or instability to the improvements. It is the responsibility of the property owner to ensure that improvements, structures and drainage devices are maintained in accordance with the following recommendations and the requirements of all applicable government agencies.

Drainage

Positive pad drainage should be incorporated into the final plans. The pad should slope away from the footings at a minimum five percent slope for a horizontal distance of ten feet. In areas where there is insufficient space for the recommended ten foot horizontal distance concrete or other impermeable surface should be provided for a minimum of three feet adjacent the structure. Pad drainage should be at a minimum of two percent slope where water flow over lawn or other planted areas. Drainage swales should be provided with area drains about every fifteen feet. Area drains should be provided in the rear and side yards to collect drainage. All drainage from the pad should be directed so that water does not pond adjacent to the foundations or flow toward them. Roof gutters and downspouts are required for the proposed structures and should be connected into a buried area drain system. All drainage from the site should be collected and directed via non-erosive devices to a location approved by the building official. Area drains, subdrains, weep holes, roof gutters and downspouts should be inspected periodically to ensure that they are not clogged with debris or damaged. If they are clogged or damaged, they should be cleaned out or repaired.

Landscaping (Planting)

The property owner is advised not to develop planter areas between patios, sidewalk and structures. Planters placed immediately adjacent to the structures are not recommended. If planters are proposed immediately adjacent to structures, impervious above-grade or below-grade planter boxes with solid bottoms and drainage pipes away from the structure are suggested. All slopes should be maintained with a dense growth of plants, ground-covering vegetation, shrubs and trees that possess dense, deep root structures and require a minimum of irrigation. Plants surrounding the development should be of a variety that requires a minimum of watering. It is recommended that a landscape architect be consulted regarding planting adjacent to improvements. It will be the responsibility of the property owner to maintain the planting. Alterations of planting schemes should be reviewed by the landscape architect.

Irrigation

An adequate irrigation system is required to sustain landscaping. Over-watering resulting in runoff and/or ground saturation must be avoided. Irrigation systems must be adjusted to account for natural rainfall conditions. Any leaks or defective sprinklers must be repaired immediately. To mitigate erosion and saturation, automatic sprinkling systems must be adjusted for rainy seasons. A landscape architect should be consulted to determine the best times for landscape watering and the proper usage.

Pools/Plumbing

Leakage from a swimming pool or plumbing can produce a perched groundwater condition that may cause instability or damage to improvements. Therefore, all plumbing should be leak-free.

Grading and Earthwork

Proposed grading will consist of removal and recompaction of the existing fill and soil exposed at the proposed subgrade (southeastern portion of the building). In addition, retaining wall backfilling may be required.

Remedial grading is recommended within the building areas in order to remove the existing fill and soil down to bedrock for support of the garage slab. Based on the conditions encountered in the explorations the recommended removals are anticipated to vary to about 5 feet from the proposed subgrade.

Following the completion of the excavation, the subgrade soils should be evaluated by the project geotechnical engineer to verify their suitability to support the structural fill as well as to support the foundation loads of the proposed development. This evaluation may include probing and proof-rolling to identify any soft, loose or otherwise unstable soils that must be removed. Some localized areas of deeper excavation may be required if additional fill materials or dry, loose, porous or otherwise unsuitable materials are encountered at the base of the over-excavation.

Foundations

It is recommended that the proposed structure be founded into bedrock. It anticipated the portions of the proposed foundations (southeastern portion of the building) will need to deepened locally to achieve the recommended embedment into bedrock. All foundations shall maintain the required code setback from any slope.

The minimum continuous footing size is 18 inches wide and 24 inches deep into the bedrock, measured from the lowest adjacent grade. Continuous footings may be proportioned, using a bearing value of 4000 pounds per square foot. Column footings placed into the bedrock may be proportioned, using a bearing value of 4500 pounds per square foot, and should be a minimum of 2 feet in width and 24 inches deep, below the lowest adjacent grade.

All continuous footings shall be reinforced with a minimum of 4 #(5) bars, two placed near the top and two near the bottom. Reinforcing recommendations are minimums and may be revised by the structural engineer.

The bearing values given above are net bearing values; the weight of concrete below grade may be neglected. These bearing values may be increased by one-third (1/3) for temporary loads, such as, wind and seismic forces.

Lateral loads may be resisted by friction at the base of the foundations and by passive resistance within the bedrock. A coefficient of friction of 0.4 may be used between the foundations and the bedrock. The passive resistance may be assumed to act as a fluid with a density of 450 pounds per square foot, with a maximum earth pressure of 4500 pounds per square foot. When combining passive and friction for resistance of lateral loads, the passive component should be reduced by one-third.

All footing excavation depths will be measured from the lowest adjacent grade of recommended bearing material. Footing depths will not be measured from any proposed elevations or grades. Any foundation excavations that are not the recommended depth into the recommended bearing materials will not be acceptable to this office.

Settlement

Settlement of continuous footings is anticipated to be on the order of 1/2 inches. Isolated footings should have a settlement of 3/4 inches. Differential settlement between the two foundation unit types is not expected to exceed 1/2 inches.

Expansive Soils

Expansive soils were encountered on the subject property. Expansive soils can be a problem, as variation in moisture content will cause a volume change in the soil. Expansive soils heave when moisture is introduced and contract as they dry. During inclement weather and/or excessive landscape watering, moisture infiltrates the soil and causes the soil to heave (expansion). When drying occurs the soils will shrink (contraction).

Repeated cycles of expansion and contraction of soils can cause pavement, concrete slabs on grade and foundations to crack. This movement can also result in misalignment of doors and windows. To reduce the effect of expansive soils, foundation systems are usually deepened and/or provided with additional reinforcement design by the structural engineer. Planning of yard improvements should take into consideration maintaining uniform moisture conditions around structures. Soils should be kept moist, but water should not be allowed to pond. These designs are intended to reduce, but will not eliminate deflection and cracking and do not guarantee or warrant that cracking will not occur.

Excavations

Excavations ranging in vertical height up to 5 feet will be required for the remedial grading of the southeastern portion of the development and excavations ranging in vertical height up to 16 feet will be required for the subgrade parking retaining wall excavation. Conventional excavation equipment may be used to make these excavations. Excavations should expose soil and bedrock. The bedrock is suitable for non-surcharged vertical excavations up to 12 feet in cross bedding bedrock. Excavations into along-bedding bedrock shall be shored. Excavation above 12 feet should be trimmed back at a 1:1 (H:V) slope. Where space does not allow trimming the excavations should be shored. This should be verified by the project geotechnical engineer during construction so that modifications can be made if variations in the soil occur.

All excavations should be stabilized within 30 days of initial excavation. If this time is exceeded, the project geotechnical engineer must be notified, and modifications, such as shoring or slope trimming may be required. Water should not be allowed to pond on top of the excavation, nor to flow toward it. All excavations should be protected from inclement weather. This is required to keep the surface of the open excavation from becoming saturated during rainfall. Saturation of the excavation may result in a relaxation of the soils which may result in failures. Excavations should be kept moist, not saturated, to reduce the potential for raveling and sloughing during construction. No vehicular surcharge should be allowed within three feet of the top of cut.

Temporary Shoring

The following information on the design and installation of the shoring is as complete as possible at this time. It is suggested that a review of the final shoring plans and specifications be made by this office prior to bidding or negotiating with a shoring contractor be made.

One method of shoring would consist of steel soldier piles, placed in drilled holes and backfilled with concrete. The soldier piles may be designed as cantilevers or laterally braced utilizing drilled tie-back anchors or raker braces.

Soldier Piles

Drilled cast-in-place soldier piles should be placed no closer than two diameters on center. The minimum diameter of the piles is 18 inches. Structural concrete should be used for the soldier piles below the excavation; lean-mix concrete may be employed above that level. As an alternative, lean-mix concrete may be used throughout the pile where the reinforcing consists of

a wideflange section. The slurry must be of sufficient strength to impart the lateral bearing pressure developed by the wideflange section to the earth materials. For design purposes, an allowable passive value for the earth materials below the bottom plane of excavation, may be assumed to be 500 pounds per square foot per foot. To develop the full lateral value, provisions should be implemented to assure firm contact between the soldier piles and the undisturbed earth materials.

The frictional resistance between the soldier piles and retained earth material may be used to resist the vertical component of the anchor load. The coefficient of friction may be taken as0.4 based on uniform contact between the steel beam and lean-mix concrete and retained earth. The portion of soldier piles below the plane of excavation may also be employed to resist the downward loads. The downward capacity may be determined using a frictional resistance of 450 pounds per square foot. The minimum depth of embedment for shoring piles is five feet below the bottom of the footing excavation, or seven feet below the bottom of excavated plane, whichever is deeper.

Casing may be required should caving be experienced in the saturated earth materials. If casing is used, extreme care should be employed so that the pile is not pulled apart as the casing is withdrawn. At no time should the distance between the surface of the concrete and the bottom of the casing be less than five feet.

Lagging

It is anticipated that lagging will be required for the soil and fill. To develop the full lateral support, provisions should be implemented to assure firm contact between the lagging and the undisturbed earth materials. The slurry must be of sufficient strength to impart the lateral bearing pressure developed by the lagging to the earth materials. It is recommended that the lagging and slurry backfill be installed the same day as excavation.

If the clear spacing between soldier piles does not exceed four feet, lagging between soldier piles could possibly be omitted within the bedrock. It is recommended that the exposed earth materials be observed by the soils engineer to verify the cohesive nature of the soils and the area where lagging may be omitted.

Soldier piles and anchors should be designed for the full anticipated pressures. Due to arching in the earth materials, the pressure on the lagging will be less. It is recommended that the lagging be designed for the full design pressure but may be limited to a maximum of 400 pounds per square foot.

Lateral Pressures

A triangular distribution of lateral earth pressure should be utilized for the design of cantilevered shoring system. A trapezoidal distribution of lateral earth pressure would be appropriate where shoring is to be restrained at the top by bracing or tie backs. The design of trapezoidal distribution of pressure is shown in a diagram in the “Retaining Wall” section of this report.

Equivalent fluid pressures for the design of cantilevered and restrained shoring are presented in the following table:

Height of Shoring (feet)	Cantilever Shoring System Equivalent Fluid Pressure (pcf) Triangular Distribution of Pressure	Restrained Shoring System Lateral Earth Pressure (psf)* Trapezoidal Distribution of Pressure
16 feet	20 pcf	15H psf

*Where H is the height of the shoring in feet.

Where a combination of sloped embankment and shoring is utilized, the pressure will be greater and must be determined for each combination. Additional active pressures should be applied where the shoring will be surcharged by adjacent traffic or structures.

Tied-Back Anchors

Tie-back anchors may be used to resist lateral loads. Friction anchors consisting of high stress thread bars are recommended. For design purposes, it may be assumed that the active wedge adjacent to the shoring is defined by a plane drawn 35 degrees with the vertical through the bottom plane of the excavation. Friction anchors should extend a minimum of 20 feet beyond the potentially active wedge and to greater lengths if necessary to develop the desired capacities.

Drilled friction anchors may be designed for a skin friction of 300 pounds per square foot. Pressure grouted anchor may be designed for a skin friction of 2,000 pounds per square foot. Where belled anchors are utilized, the capacity of belled anchors may be designed by assuming the diameter of the bonded zone is equivalent to the diameter of the bell. Only the frictional resistance developed beyond the active wedge would be effective in resisting lateral loads. Anchors should be placed at least 6 feet on center to be considered isolated.

It is recommended that at least three of the initial anchors have their capacities tested to 200 percent of their design capacities for a 24-hour period to verify their design capacity. The total deflection during the 24-hour 200 percent test should not exceed 12 inches. During the 24-hour tests, the anchor deflection should not exceed (0.75) inches measured after the 200 percent test load is applied.

All anchors should be tested to at least 150 percent of design load. The total deflection during this test should not exceed 12 inches. The rate of creep under the 150 percent test load should not exceed (0.1) inch over a 15 minute period in order for the anchor to be approved for the design loading.

After a satisfactory test, each anchor should be locked-off at the design load. This should be verified by rechecking the load in the anchor. The load should be within ten percent of the design load. Where satisfactory tests are not attained, the anchor diameter and/or length should be increased or additional anchors be installed until satisfactory test results are obtained. The installation and testing of the anchors should be observed by a representative of this firm. Minor caving during drilling of the anchors should be anticipated.

Raker Braces

The proposed soldier piles may be laterally supported by raker braces supported by temporary footings, or dead-men. Temporary footings inclined at an angle of 45 degrees to the horizontal may be designed for an allowable bearing value of 1500 psf. To utilize this allowable bearing pressure, the inclined footings should be a minimum of 24 inches in width, and should be embedded a minimum of 24 inches below the lowest adjacent grade. An increase of 300 pounds per square foot may be utilized for each additional foot of width.

Deflection

It is difficult to accurately predict the amount of deflection of a shored embankment. It should be realized that some deflection will occur. It is estimated that the deflection could be on the order of one-half inch at the top of the shored embankment. If greater deflection occurs during construction, additional bracing may be necessary to minimize settlement of adjacent buildings and utilities in adjacent streets and alleys. If desired to reduce the deflection, a greater active pressure could be used in the shoring design. Where internal bracing is used, the rakers should be tightly wedged to minimize deflection. The proper installation of the raker braces and the wedging will be critical to the performance of the shoring.

Monitoring

Because of the depth of the excavation, some mean of monitoring the performance of the shoring system is suggested. The monitoring should consist of periodic surveying of the lateral and vertical locations of the tops of all soldier piles and the lateral movement along the entire lengths of selected soldier piles. Also, some means of periodically checking the load on selected anchors will be necessary, where applicable.

Shoring Observations

It is critical that the installation of shoring is observed by a representative of this office. Many building officials require that shoring installation should be performed during the continuous observations of the geotechnical engineer. The observations are made so that modifications of the recommendations can be made if variations in the earth material or groundwater conditions occur. Also the observations will allow for a report to be prepared on the installation of shoring for the use of the local building official.

Excavations Maintenance – Erosion Control

The following recommendations should be considered a part of the excavation/erosion control plan for the subject site and are intended to supplement, but not supersede nor limit the erosion control plans produced by the Project Civil Engineer and/or Qualified SWPPP Developer. These recommendations should be implemented during periods required by the Building Code (typically between the months of October and April) or at any time of the year prior to a predicted rain event. Consideration should also be given to potential local sources of water/runoff such as existing drainage pipes or irrigation systems that remain in operation during construction activities.

Open Excavations:

All open excavations shall be protected from inclement weather, including areas above and at the toe of the excavation. This is required to keep the excavations from becoming saturated. Saturation of the excavation may result in a relaxation of the soils which may result in failures. Water/runoff should be diverted away from the excavation and not be allowed to flow over the excavation in a concentrated manner.

Hillside Excavations:

All hillside excavations shall be protected during inclement weather and should extend beyond the edges of the excavations in all directions. Plastic sheeting along with stakes, ropes and sandbags may be used to provide protection of the excavations. Water/runoff should be diverted away from the excavation and not be allowed to flow over the excavation.

The project Civil Engineer should provide a plan depicting the required limits of erosion control. Slopes around an open excavation should be trimmed to slope away from the open excavation so that water/runoff will not drain into the excavation. Any trees or planters that might cause failures around an open excavation shall be anchored safely. After the inclement weather has ceased, the excavations shall be reviewed by the project geotechnical engineer and geologist for safety prior to recommencement of work.

Open Trenches/Foundation Excavations:

No water should be allowed to pond adjacent to or flow into open trenches. All open trenches shall be covered with plastic sheeting that is anchored with sandbags. Areas around the trenches should be sloped away from the trenches to prevent water runoff from flowing into or ponding adjacent to the trenches.

After the inclement weather has ceased, the excavations shall be reviewed by the project geotechnical engineer and geologist for safety prior to recommencement of work. Foundation excavations that remain open during inclement weather shall be reviewed by the project geotechnical engineer and geologist prior to the placement of steel and concrete to ensure that proper embedment and contact with the bearing material have been maintained.

Open Pile/Caisson Excavations:

All pile/caisson excavations should be reviewed and poured prior to the onset of inclement weather. It is not recommended that any pile/caisson excavations remain open through any inclement weather. However, if it is necessary to leave pile/caisson excavations open during inclement weather, all water and runoff shall be diverted away from and prevented from entering the pile/caisson excavations. Pile/caisson excavations that remain open during inclement weather shall be reviewed by the project geotechnical engineer and geologist prior to the placement of steel and concrete to ensure that proper embedment has been maintained. The base of all end-bearing caissons shall be re-cleaned to ensure contact with the proper bearing material. All stockpiled cuttings from the pile borings shall be removed.

Grading In Progress:

During the inclement time of the year, or during periods prior to the onset of rain, all fill that has been spread and is awaiting compaction shall be compacted before stopping work for the day or before stopping work because of inclement weather. These fills, once compacted, shall have the surface sloped to drain to one area where water may be removed.

Additionally, it is suggested that all stock-piled fill materials be covered with plastic sheeting. This action will reduce the potential for the moisture content of the fill from becoming too high for compaction. If the fill stockpile is not covered during inclement weather, then aerating the fill to reduce the moisture content would be required. This action is generally very time consuming and may result in construction delays.

Work may recommence, after the rain event, once the site has been reviewed by the project geotechnical engineer.

Retaining Walls

Cantilever retaining walls should be designed to resist an active earth pressure such as that exerted by compacted backfill. Retaining walls up to 10 feet in height may be designed per the following table. The 'active' pressure assumes that the wall will be allowed to deflect 0.01H to 0.02H. Basement walls and other walls where horizontal movement is restricted at the top or not allowed to deflect shall be designed for at-rest pressure.

Height of Retained Material Feet	Active Equivalent Fluid Weight p.c.f.	At-Rest Pressure Fluid Weight p.c.f.
10 (Cross-Bedding)	30	65
10 (Along-Bedding)	45	85

In addition to lateral earth pressure, these retaining walls should be designed to resist the surcharge imposed by the proposed structures, footings, any adjacent buildings, or by adjacent traffic surcharge, per the attached figures 11 and 12 obtained from the Naval Facilities Engineering Command, Design Manual 7.02 (Foundation and Earth Structures, pages 74 and 75).

The wall pressure stated assumes that the wall has been backfilled as outlined below with a permanent drainage system. Proper compaction of the backfill is recommended to provide lateral support to adjacent properties. Even with proper compaction of required backfill, settlement of the backfill may occur. Accordingly, utility lines, footings, slabs, or falsework should be planned and designed to accommodate potential settlement.

Walls to be backfilled must be reviewed by the project Geotechnical Engineer prior to commencement of the backfilling operation.

1. Adequate permanent drainage is required behind the wall to minimize the buildup of hydrostatic pressures. A perforated pipe, with perforations placed down, shall be installed at the base of the wall footing. The pipe shall be encased in at least one foot of three-quarter inch (3/4") gravel. The pipe shall exit from behind the retaining wall and drain to a location approved by the architect or civil engineer.

   When space does not permit the installation of standard pipe and gravel drainage system, i.e. walls adjacent the property line, a flat drainage product is acceptable subject to approval of the governing agency. It is recommended that a drainage composite geotextile (such as MiraDrain / QuickDrain) be placed at the base of the proposed retaining wall. The drainage composite geotextile will provide comparable drainage to the conventional four inch perforated pipe encased in gravel per Code Sections 1805.4.2 and 1805.4.3

   If a drainage system is not provided the walls should be designed to resist an external hydrostatic pressure due to water in addition to the lateral earth pressure in Retaining Wall section. The entire wall should be design for full hydrostatic pressure based on a water level at the ground surface. In addition, floors would need to be designed for hydrostatic uplift and waterproofed.

2. A continuous vertical drain, consisting of a gravel blanket six inches thick or geotextile vertical drainage system, shall be placed along the back side of the wall to within two feet of the ground surface.

3. Water and moisture affecting retaining walls is a common post-construction complaint. Poorly applied or omitted waterproofing can lead to standing water inside the building or efflorescence on the wall.

   It is recommended that the retaining walls be waterproofed. Waterproofing design and inspection of installation is not the responsibility of the geotechnical engineer. GeoConcepts, Inc. does not practice in the field of water and moisture vapor transmission evaluation/mitigation. Therefore, we recommend that a qualified person/firm be engaged/consulted to evaluate the general and specific water and moisture vapor transmission paths and any impact on the proposed development. This person/firm should provide recommendations for mitigation of potential adverse impact of water and moisture vapor transmission on various components of the structure as deemed necessary. The actual waterproofing design shall be provided by the architect, structural engineer or contractor with experience in waterproofing.

4. After the wall backdrain system has been placed and the waterproofing installed, fill may be placed, if sufficient room allows, in layers not exceeding four inches in thickness and compacted to 90 percent of the maximum density, as determined by ASTM D 1557. Where cohesionless soil having less than 15 percent finer than (0.005) millimeters is used for fill, the fill material shall be compacted to a minimum of 95 percent of the maximum dry density.

5. Where space does not permit compaction of material behind the wall (<24 inches wide), a granular backfill shall be used. This granular backfill shall consist of one-half inch to three-quarter inch crushed rock and should be densified by tamping into place. The crushed rock backfill should not exceed a depth of ten feet.

6. All granular free-draining wall backfills shall be capped with a clayey compacted soil within the upper two feet of the wall backfill. This compacted material should start below the required wall freeboard.

Lateral Earth Pressure Due to Earth Motion

Retaining walls should be designed to resist an active earth pressure due to earth motion, if required by the building official, distributed as a triangle pressure. Retaining walls up to 16 feet in height may be designed per the following table. The seismic equivalent fluid pressure is in addition to static earth pressures.

The seismic loading is based on a horizontal acceleration coefficient of ½ of 2/3 PGA_M = 0.32.

Height of Retained Material Feet	Seismically Induced Earth Pressure - Equivalent Fluid Weight p.c.f.
16 (Cross-Bedding)	5
16 (Along-Bedding)	15

Slabs on Grade

Slabs on grade should be reinforced with minimum #4 reinforcing bars, placed at 16 inches on center each way and supported on compacted fill or bedrock. Provisions for cracks should be incorporated into the design and construction of the foundation system, slabs, and proposed floor coverings. Concrete slabs should have sufficient control joints spaced at a maximum of approximately eight feet. These recommendations are considered minimums unless superseded by the project structural engineer. Prior to placing the vapor retarder/waterproofing the moisture content of the subgrade should be raised to 120 percent of the optimum moisture content to a depth of 18 inches.

It is recommended that a vapor retarder/waterproofing be placed below the concrete slab on grade. Vapor/moisture transmission through slabs does occur and can impact various components of the structure.

Vapor retarder/waterproofing design and inspection of installation is not the responsibility of the geotechnical engineer (most often the responsibility of the architect). GeoConcepts, Inc. does not practice in the field of water and moisture vapor transmission evaluation/mitigation. Therefore, we recommend that a qualified person/firm be engaged/consulted to evaluate the general and specific water and moisture vapor transmission paths and any impact on the proposed development. This person/firm should provide recommendations for mitigation of potential adverse impact of water and moisture vapor transmission on various components of the structure as deemed necessary. The actual waterproofing design shall be provided by the architect, structural engineer or contractor with experience in waterproofing

In order to promote good building practices and alert the rest of the design/construction team of some of the appropriate standards and expert recommendations pertaining to vapor barriers/retarders, the waterproofing designer should consider recommending and citing specific performance characteristics. The following paragraph includes some of the standards and expert recommendations and should be considered for use waterproofing designer own recommendations:

Vapor barrier shall consist of a minimum 15 mil extruded polyolefin plastic (no recycled content or woven materials permitted). Permeance as tested before and after mandatory conditions (ASTM E 1745 Section 7.1 and Sub-Paragraph 7.1.1-7.1.5): less than 0.01 perms [grains/(ft^2-hr-inHg)] and comply with the ASTM E 1745 Class A requirements. Install vapor barrier according to ASTM E1643, including proper perimeter seal. Basis of design: Stego Wrap Vapor Barrier 15 mil and Stego Crete Claw Tape (perimeter seal tape). Approved Alternatives: Vaporguard by Reef Industries, Sundance 15 mil Vapor Barrier by Sundance Inc.

Decking

Exterior decking slabs on grade should be reinforced with minimum #4 reinforcing bars, placed at 16 inches on center each way and supported on compacted fill or bedrock. Provisions for cracks should be incorporated into the design and construction of the decking. Concrete slabs should have sufficient control joints spaced at a maximum of approximately 8 feet. Decking planned adjacent to lawns, planters or adjacent to descending slopes should be provided with a 12-inch thickened edge. The deck reinforcement should be bent down into the edge. These recommendations are considered minimums unless superseded by the project structural engineer. Prior to placing the concrete the subgrade should be raised to 120 percent of the optimum moisture content to a depth of 18 inches.

REVIEWS

Plan Review and Plan Notes

The final grading, building, and/or structural plans shall be reviewed and approved by the consultants to ensure that all recommendations are incorporated into the design or shown as notes on the plan.

The final plans should reflect the following:

1. The Preliminary Geologic and Geotechnical Engineering Investigation by GeoConcepts, Inc. is a part of the plans.

2. Plans must be reviewed and signed by GeoConcepts, Inc.

3. The project geotechnical engineer and/or geologist must review all grading.

4. The project geotechnical engineer and/or geologist shall review all foundations.

Construction Review

Reviews will be required to verify all geologic and geotechnical work. It is required that all footing excavations, seepage pits, and grading be reviewed by this office. This office should be notified at least **two working days** in advance of any field reviews so that staff personnel may be made available.

The property owner should take an active role in project safety by assigning responsibility and authority to individuals qualified in appropriate construction safety principles and practices. Generally, site safety should be assigned to the general contractor or construction manager that is in control of the site and has the required expertise, which includes but not limited to construction means, methods and safety precautions.

LIMITATIONS

General

This report is intended to be used only in its entirety. No portion or section of the report, by itself, is designed to completely represent any aspect of the project described herein. If any reader requires additional information or has questions regarding this report, GeoConcepts, Inc. should be contacted.

Subsurface conditions were interpreted on the basis of our field explorations and past experience. Although, between exploratory excavations, subsurface earth materials may vary in type, strength and many other properties from those interpreted. The findings, conclusions and recommendations presented herein are for the soil conditions encountered in the specific locations. Earth materials and conditions immediately adjacent to, or beneath those observed may have different characteristics, such as, earth type, physical properties and strength. Other soil conditions due to non-uniformity of the soil conditions or manmade alterations may be revealed during construction. If subsurface conditions differ from those encountered in the described exploration, this office should be advised immediately so that further recommendations may be made if required. If it is desired to minimize the possibility of such changes, additional explorations and testing can/should be performed.

Findings, conclusions and recommendations presented herein are based on experience and background. Therefore, findings, conclusions and recommendations are professional opinions and are not meant to indicate a control of nature.

This preliminary report provides information regarding the findings on the subject property. It is not designed to provide a guarantee that the site will be free of hazards in the future, such as but not limited to, landslides, slippage, liquefaction, expansive soils, differential settlement, debris flows, seepage, concentrated drainage or flooding. It may not be possible to eliminate all hazards, but homeowners must maintain their property and improve deficiencies to minimize these hazards.

This report may not be copied. If you wish to purchase additional copies, you may order them from this office.

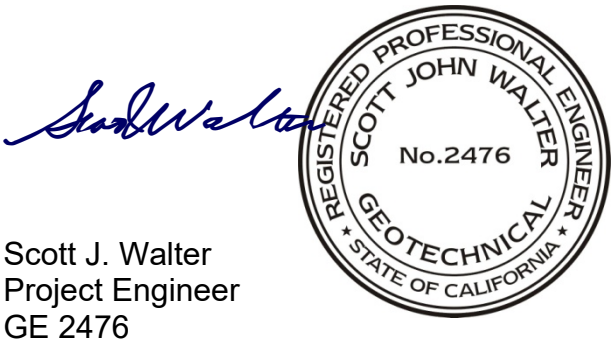
CONSTRUCTION NOTICE

Construction can be challenging. GeoConcepts, Inc. has provided this report to advise you of the general site conditions, geotechnical feasibility of the proposed project, and overall site stability. It must be understood that the professional opinions provided herein are based upon subsurface data, laboratory testing, analyses, and interpretation thereof. Recommendations contained herein are based upon surface reconnaissance and minimum subsurface explorations deemed suitable by your consultants.

Although quantities for foundation concrete and steel may be estimated based on the findings provided in this report, provision should be made for possible changes in quantities during construction. If it is desired to minimize the possibility of such changes, additional exploration and testing should be considered. However, you must be aware that depths and magnitudes will most likely vary between explorations given in the report.

We appreciate the opportunity of serving you on this project. If you have any questions concerning this report, please contact the undersigned.

Respectfully submitted,
GEOCONCEPTS, INC.





Scott J. Walter
Project Engineer
GE 2476

Mark A. Barrett
Project Geologist
CEG 2088

PRK/SJW/MAB: 5462-1

Distribution: (3) Addressee

APPENDIX I

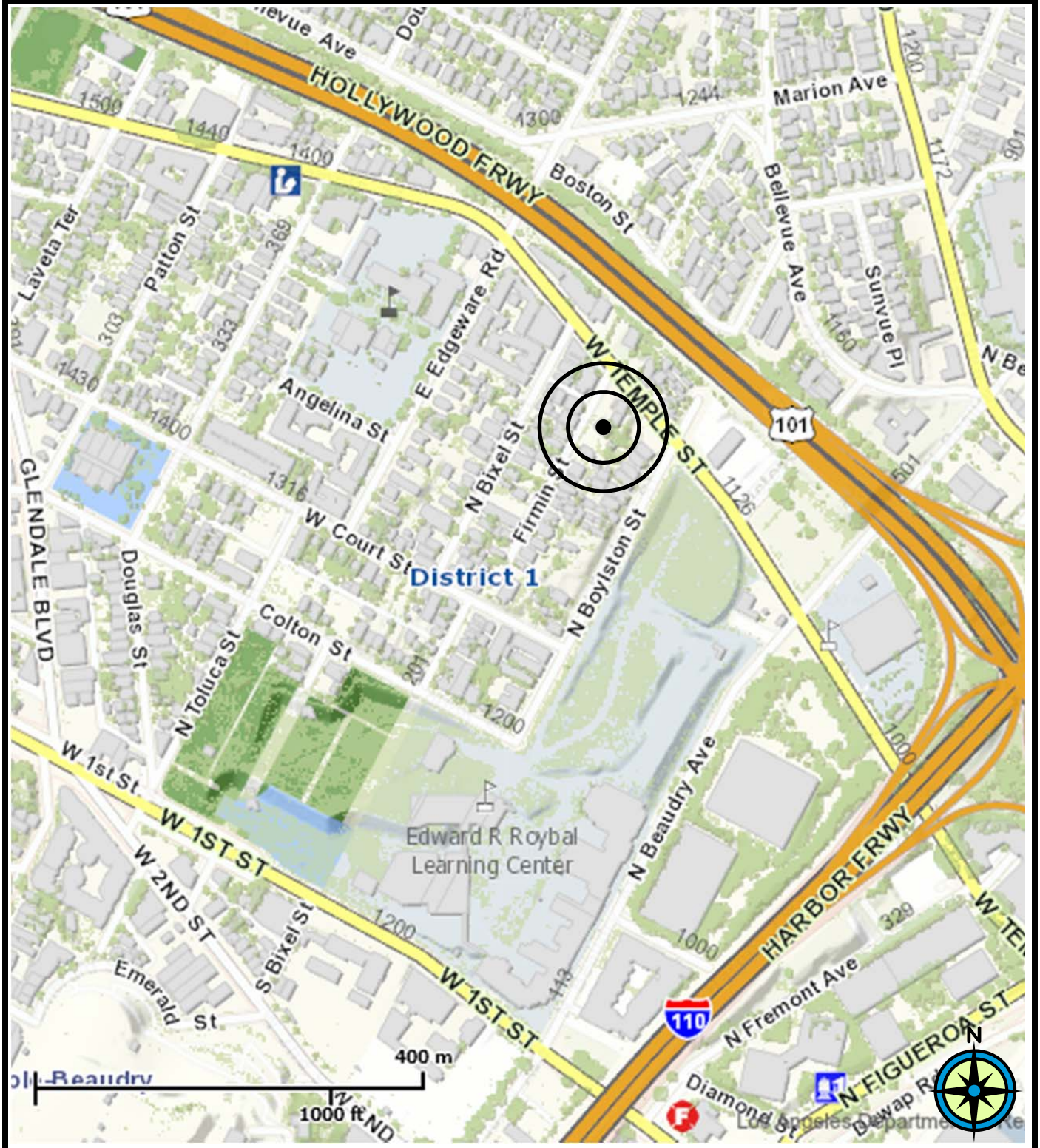
SITE INFORMATION

Location Map
Regional Geologic Map
USGS Fault Map
Seismic Hazard Map

Geologic Map
Cross Sections

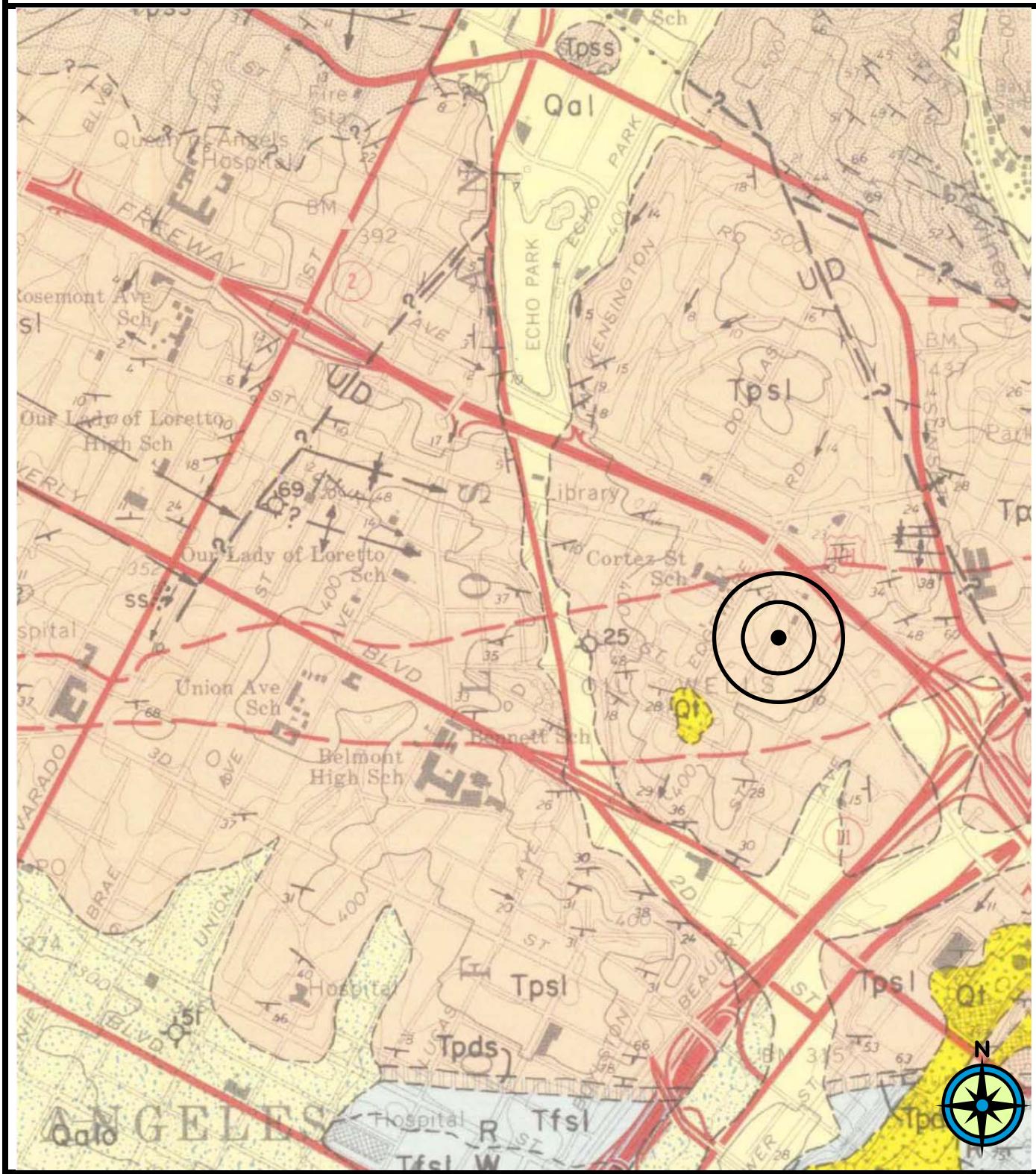
Field Exploration
Exploration Logs TP-1 through TP-14
Boring B-1

LOCATION MAP



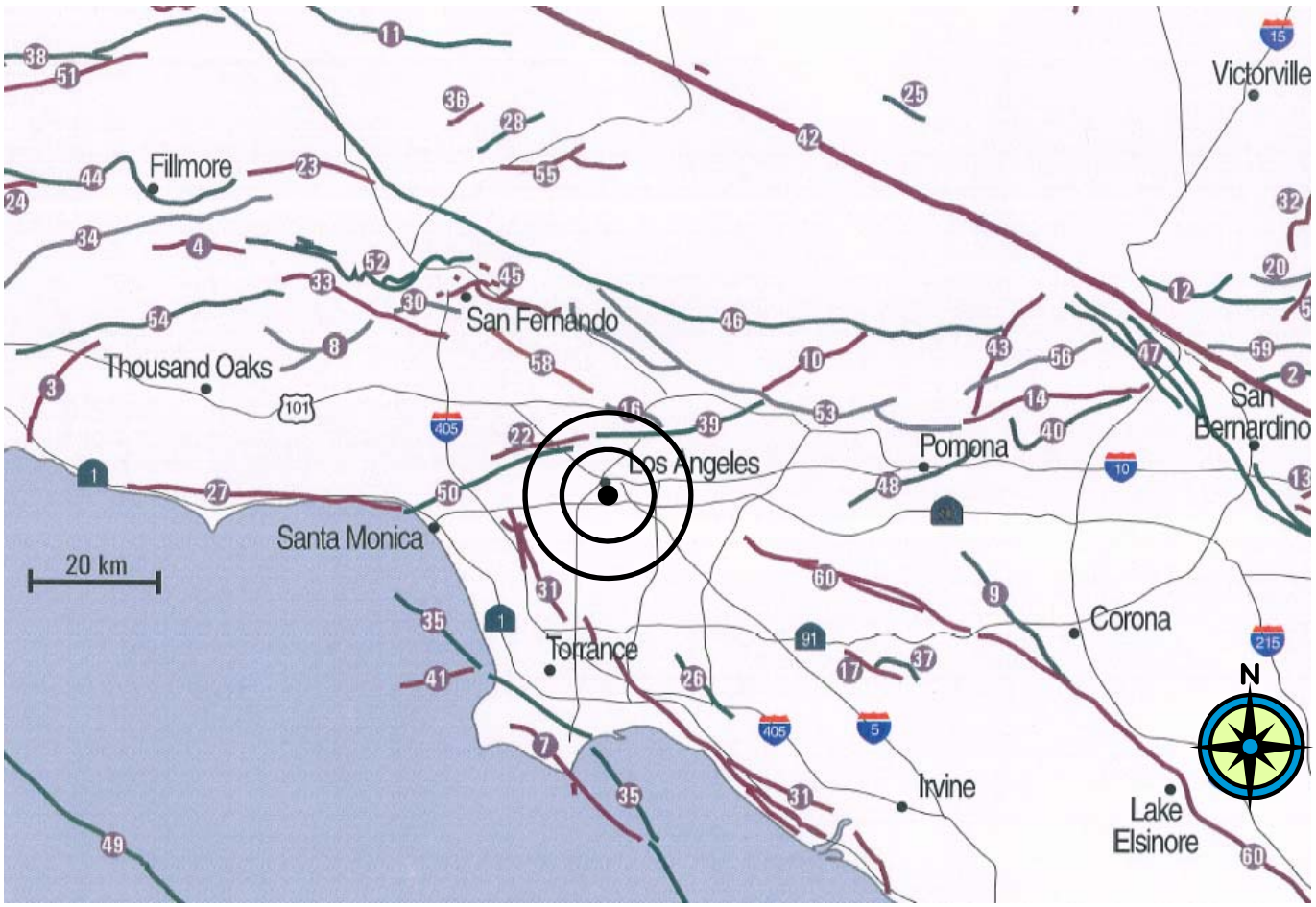
Reference:	City of Los Angeles, Department of Regional Planning, GIS-NET3	Scale: As Shown

REGIONAL GEOLOGIC MAP



Reference:	Lamar, D. L., 1970, Geology of the Elysian Park-Repetto Hills Area, Los Angeles County California	Scale: 1" = 1000'

USGS FAULT MAP



Lisa Wald, U.S. Geologic Survey (modified from SCEC).

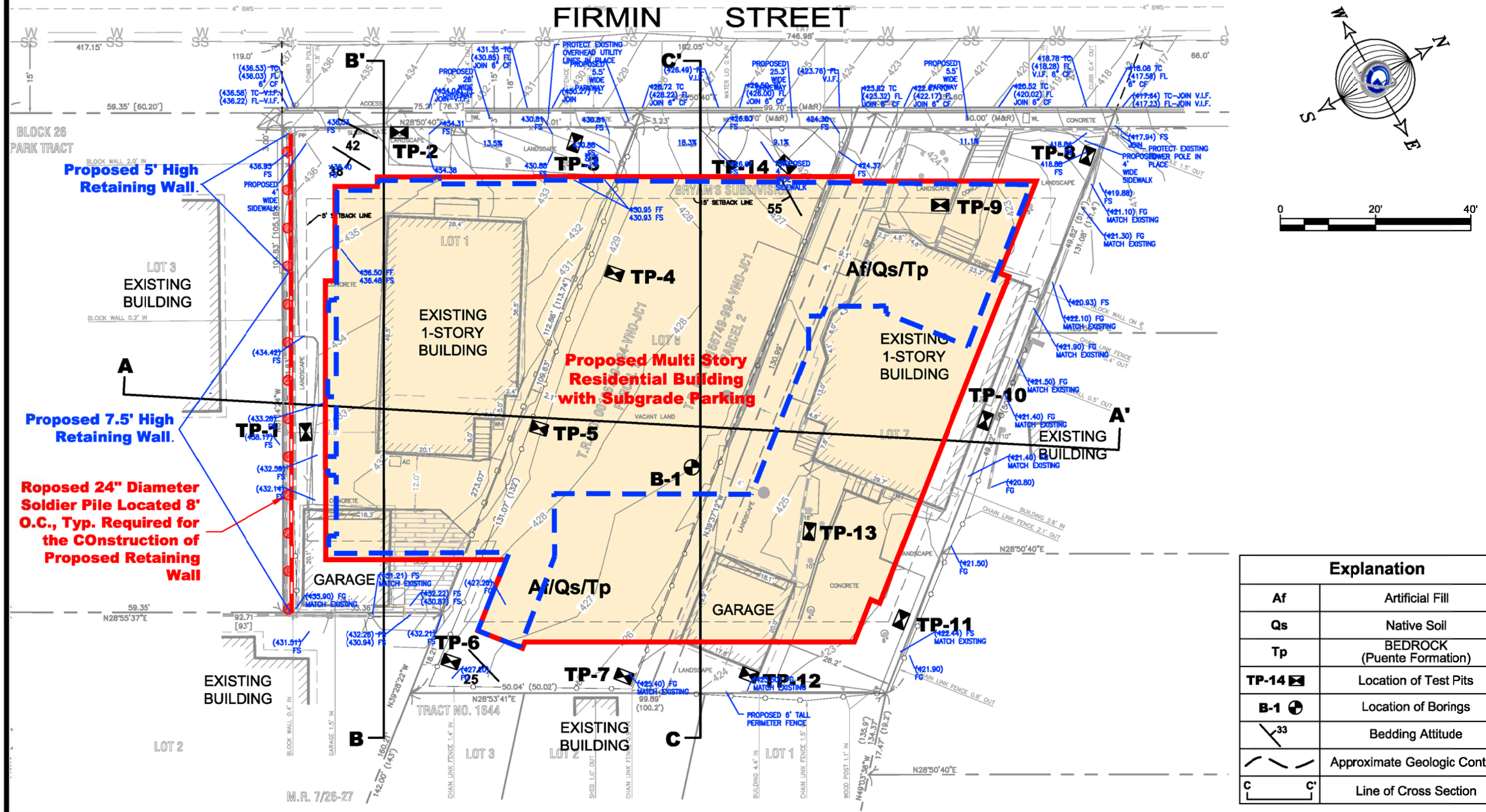
1 Alamo thrust
2 Arrowhead fault
3 Bailey fault
4 Big Mountain fault
5 Big Pine fault
6 Blake Ranch fault
7 Cabrillo fault
8 Chatsworth fault
9 Chino fault
10 Clamshell-Sawpit fault
11 Clearwater fault
12 Cleghorn fault
13 Crafton Hills fault zone
14 Cucamonga fault zone
15 Dry Creek
16 Eagle Rock fault
17 El Modeno
18 Frazier Mountain thrust
19 Garlock fault zone
20 Grass Valley fault
21 Helendale fault
22 Hollywood fault
23 Holser fault
24 Lion Canyon fault
25 Llano fault
26 Los Alamitos fault
27 Malibu Coast fault
28 Mint Canyon fault
29 Mirage Valley fault zone
30 Mission Hills fault
31 Newport Inglewood fault zone
32 North Frontal fault zone
33 Northridge Hills fault
34 Oak Ridge fault
35 Palos Verdes fault zone
36 Pelona fault
37 Peralta Hills fault
38 Pine Mountain fault
39 Raymond fault
40 Red Hill (Etiwanda Ave) fault
41 Redondo Canyon fault
42 San Andreas Fault
43 San Antonio fault
44 San Cayetano fault
45 San Fernando fault zone
46 San Gabriel fault zone
47 San Jacinto fault
48 San Jose fault
49 Santa Cruz-Santa Catalina Ridge f.z.
50 Santa Monica fault
51 Santa Ynez fault
52 Santa Susana fault zone
53 Sierra Madre fault zone
54 Simi fault
55 Soledad Canyon fault
56 Stoddard Canyon fault
57 Tunnel Ridge fault
58 Verdugo fault
59 Waterman Canyon fault
60 Whittier fault

Reference:	U. S. G. S: active fault (red) and potentially active fault (green)	

SEISMIC HAZARD MAP



Reference:	State of California, Seismic Hazard Map of the Hollywood Quadrangle	Scale: As Shown



Explanation	
Af	Artificial Fill
Qs	Native Soil
Tp	BEDROCK (Puente Formation)
TP-14	Location of Test Pits
B-1	Location of Borings
33	Bedding Attitude
	Approximate Geologic Contact
C C'	Line of Cross Section

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14428 Hamlin Street, Suite 200,Van Nuys, CA 91401
Ph (818) 994-8895 | Fax (818) 994-8599 | www.GeoConceptsInc.com

Description:
Geologic Map

Base Map Provided By:
Rosell Surveying & Mapping, Inc.

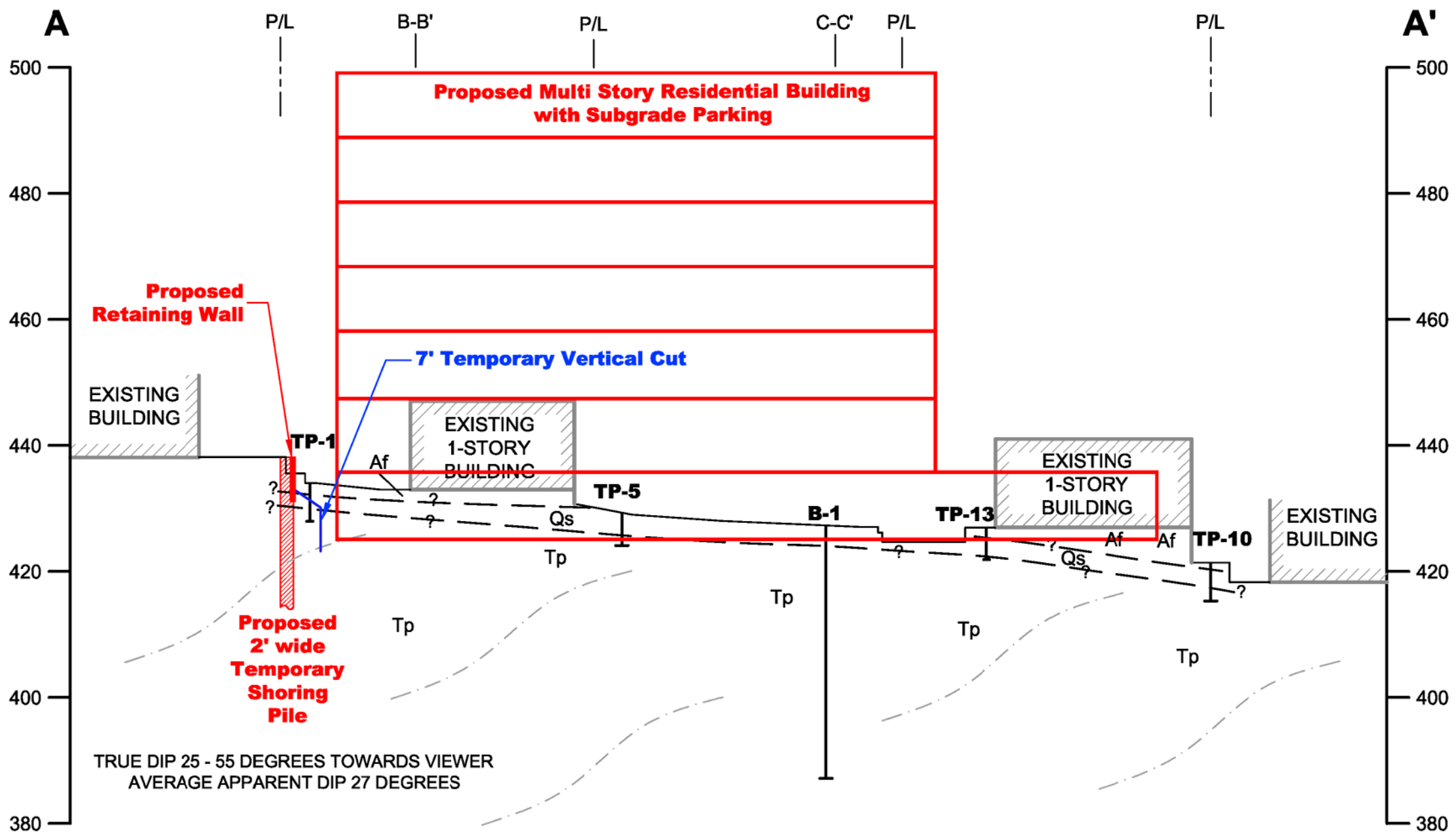
Project Address:
418, 426, & 430 Firmin Street
Los Angeles, California

Date: May 2018

Scale: 1" = 20'

Job No. 5462-1a

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Description:

Geologic Cross Section A-A'

Project Address:

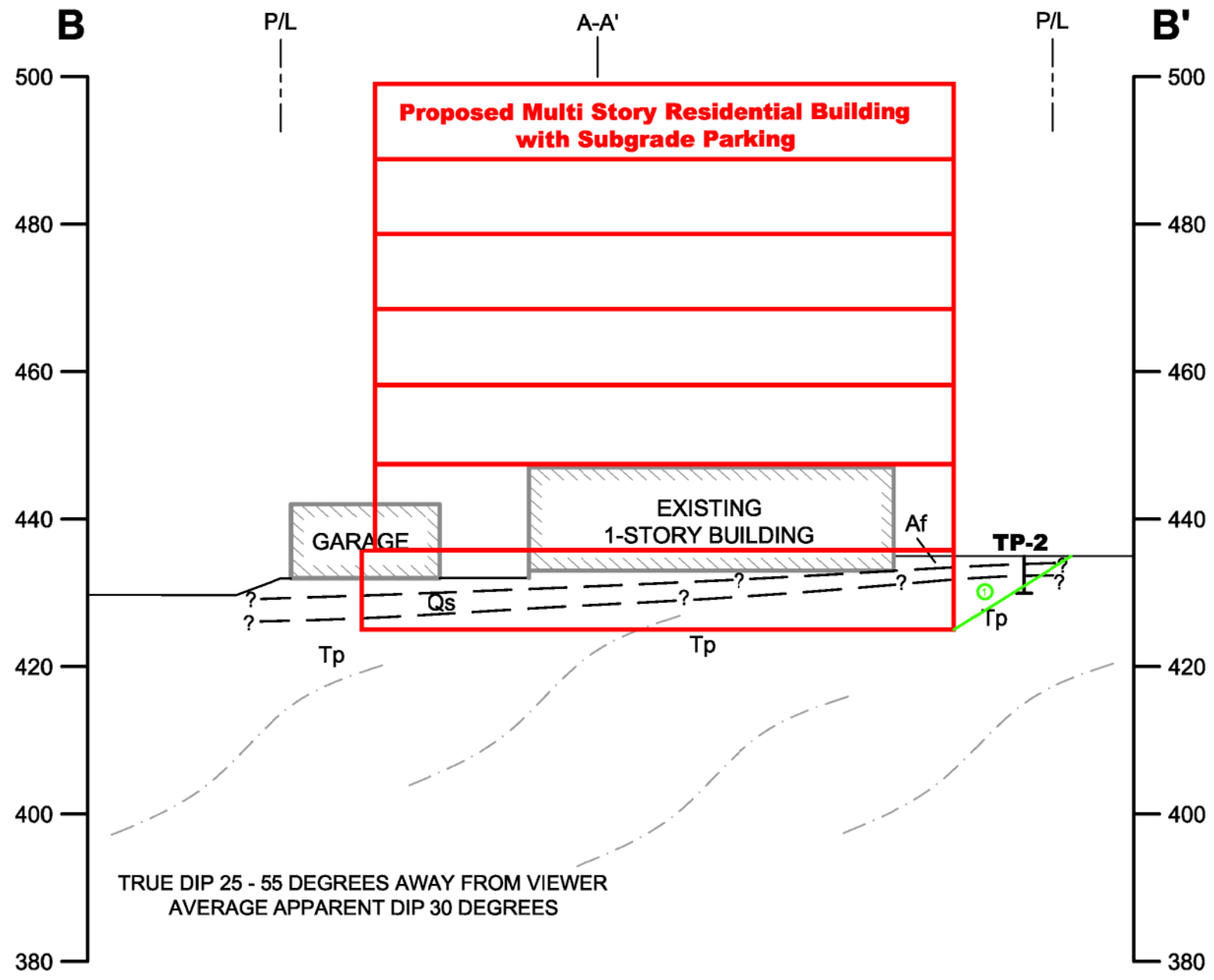
418, 426, & 430 Firmin Street
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Date: May 2018

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Description:

Geologic Cross Section B-B'

Project Address:

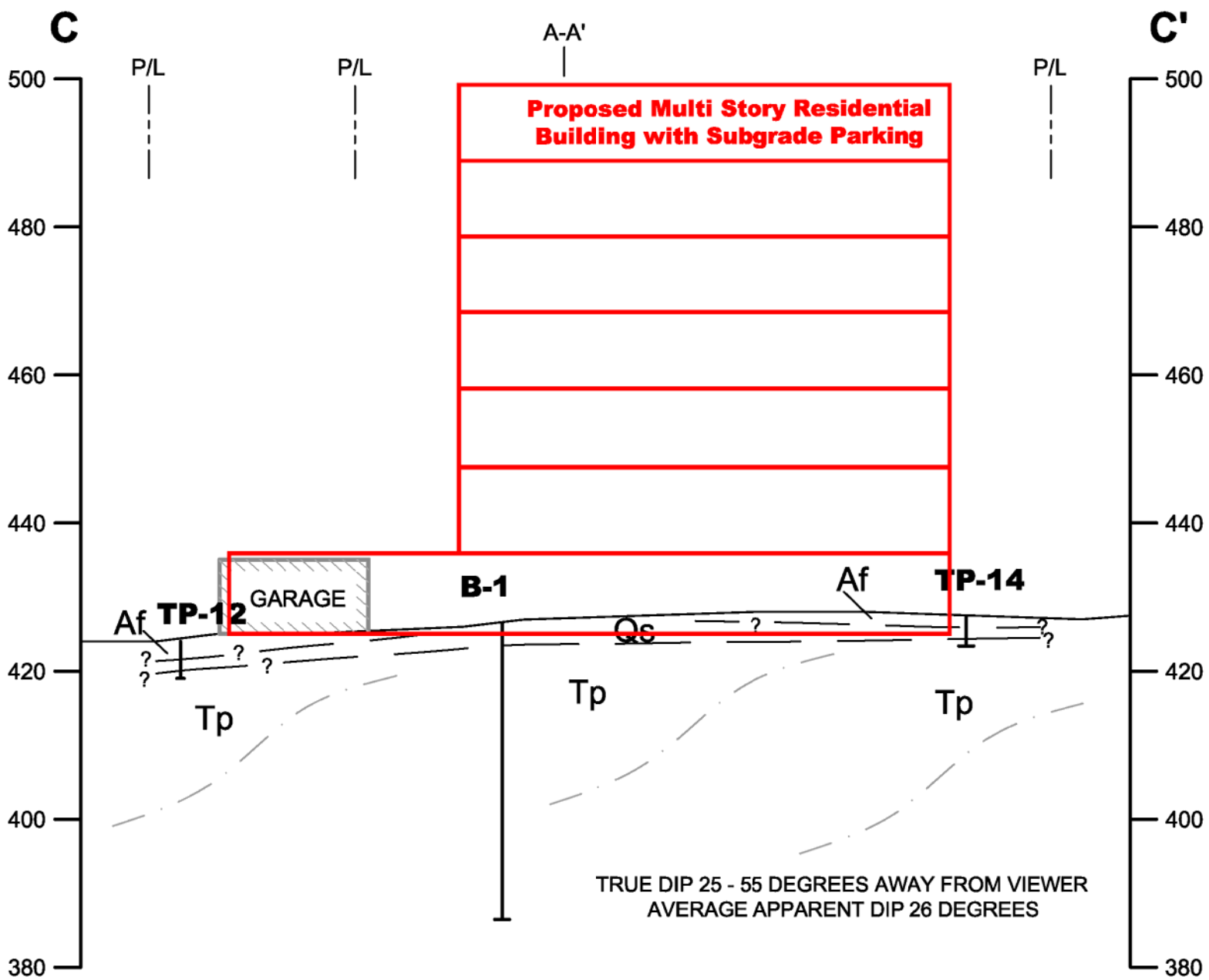
418, 426, & 430 Firmin Street
Los Angeles, California

Date: May 2017

Scale: 1" = 20'

Job No. 5462-1a

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Description:

Geologic Cross Section C-C'

Project Address:

418, 426, & 430 Firmin Street
Los Angeles, California

Date: May 2017

Scale: 1" = 20'

Job No. 5462-1a

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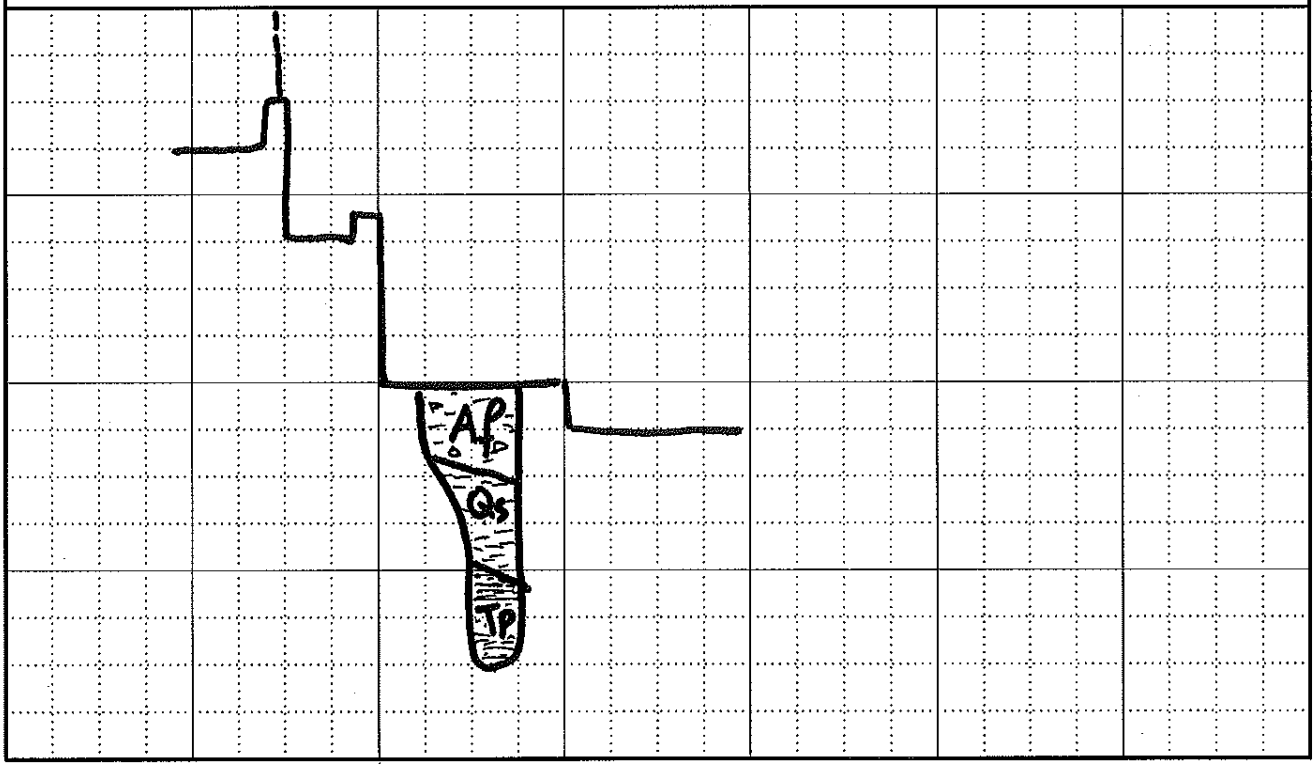
EXPLORATION: TP-1

PROJECT: 418-430 Firmin St | PROJECT NO.: 5462

DATE: November 20, 2017 | LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 2.0' **ARTIFICIAL FILL; Af,** clayey silt with sand, dark yellowish brown, dry, soft
	2.0' - 4.0' **NATIVE SOIL; Qs,** silty clay, very dark brown to black, damp, stiff
	4.0' - 6.0' **BEDROCK; Tp,** sandstone and siltstone, orange to bluish gray, dense to very dense, highly weathered to slightly weathered
fo - foliation s - shear j - joint b - bedding	Total Depth 6.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



EXPLORATION: TP-2

PROJECT: 418-430 Firmin St

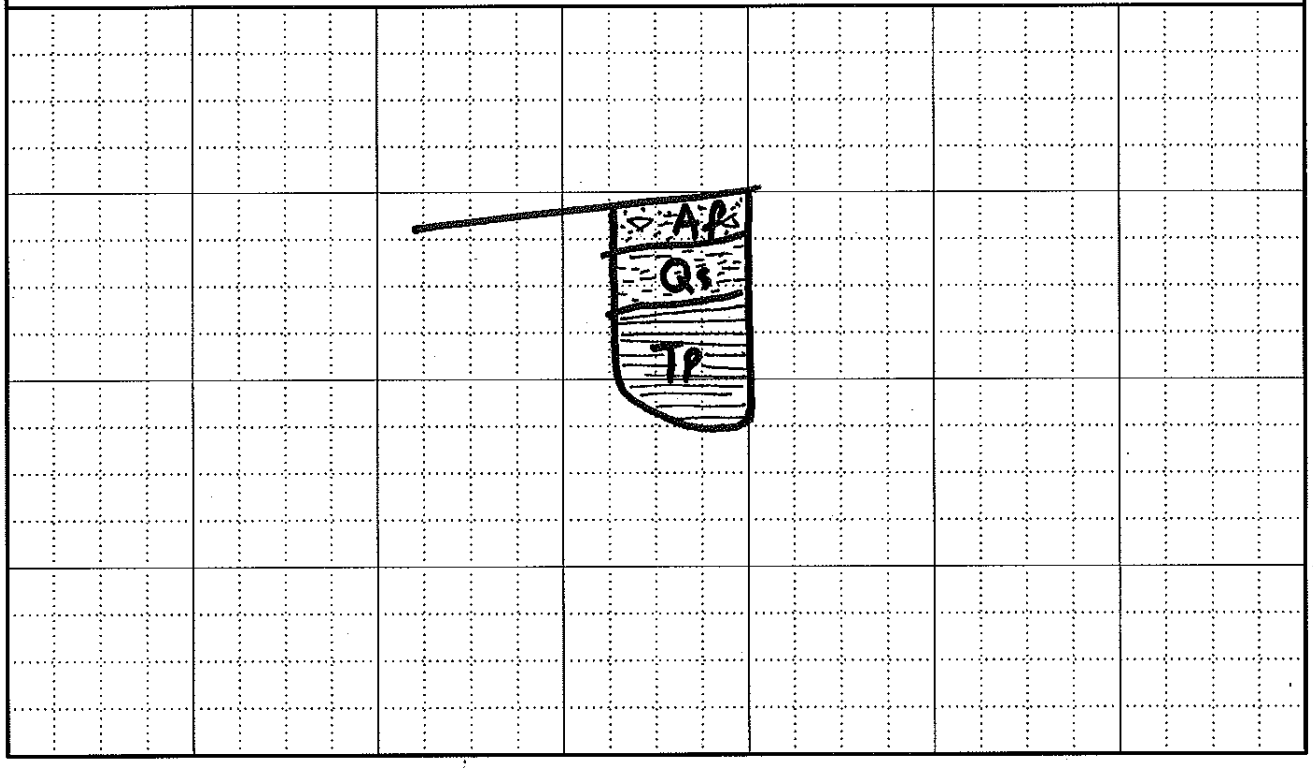
PROJECT NO.: 5462

DATE: November 20, 2017

LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 1.0' **ARTIFICIAL FILL; Af,** sand, gray, dry, loose
	1.0' - 2.5' **NATIVE SOIL; Qs,** silty clay, very dark brown to black, damp, stiff
055°/42° S-b 060°/38° S-b	2.5' - 5.0' **BEDROCK; Tp,** sandstone and siltstone, white to yellowish orange, damp, dense to very dense, moderately weathered, moderately bedded
fo - foliation s - shear j - joint b - bedding	Total Depth 6.0 Feet, No Groundwater, Caving @ 0.0 - 1.0 Feet

SCALE 1"=4' **GENERALIZED PROFILE**



EXPLORATION: TP-3

PROJECT: 418-430 Firmin St

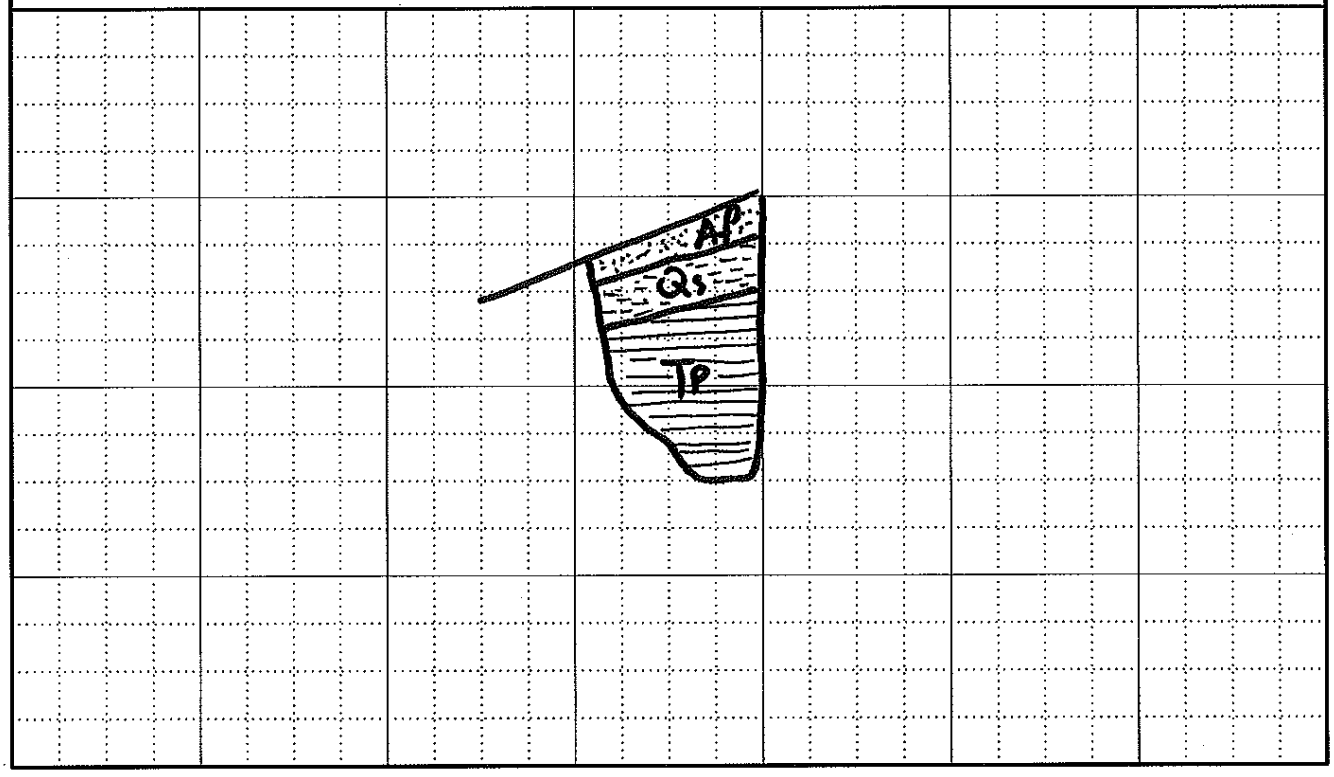
PROJECT NO.: 5462

DATE: November 20, 2017

LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 1.0' **ARTIFICIAL FILL; Af,** sand, gray, dry, loose 1.0' - 2.5' **NATIVE SOIL; Qs,** silty clay, very dark brown to black, damp, stiff 2.5' - 6.0' **BEDROCK; Tp,** sandstone and siltstone, white to yellowish orange, damp, dense to very dense, moderately to slightly weathered, poorly bedded
fo - foliation s - shear j - joint b - bedding	Total Depth 6.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



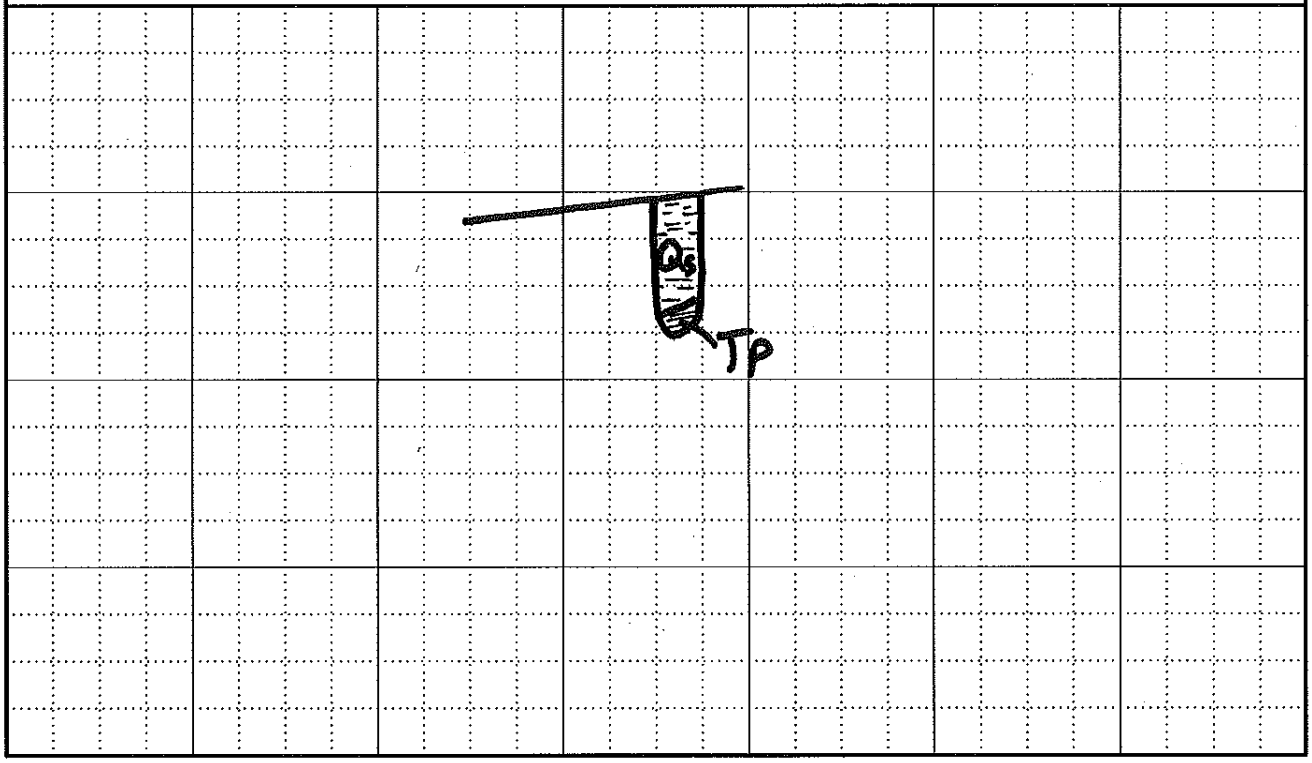
EXPLORATION: TP-4

PROJECT: 418-430 Firmin St | PROJECT NO.: 5462

DATE: November 20, 2017 | LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 2.5' **NATIVE SOIL; Qs,** silty clay, very dark brown to black, damp, stiff 2.5' - 3.0' **BEDROCK; Tp,** sandstone and siltstone, tan to orange, damp, dense
fo - foliation s - shear j - joint b - bedding	Total Depth 3.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



EXPLORATION: TP-5

PROJECT: 418-430 Firmin St

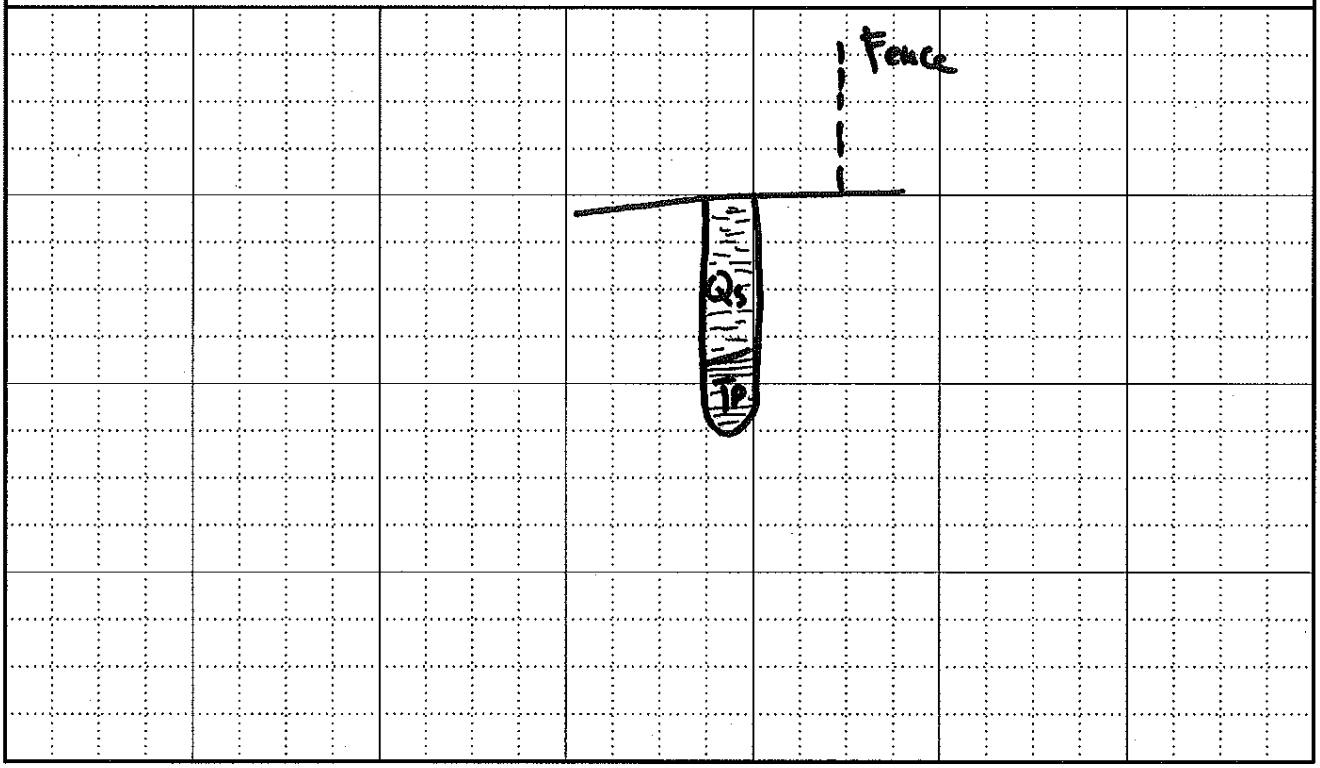
PROJECT NO.: 5462

DATE: November 20, 2017

LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 3.5' **NATIVE SOIL; Qs,** silty clay, very dark brown to black, damp, stiff 3.5' - 5.0' **BEDROCK; Tp,** sandstone and siltstone, tan to orange, damp, dense
fo - foliation s - shear j - joint b - bedding	Total Depth 5.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



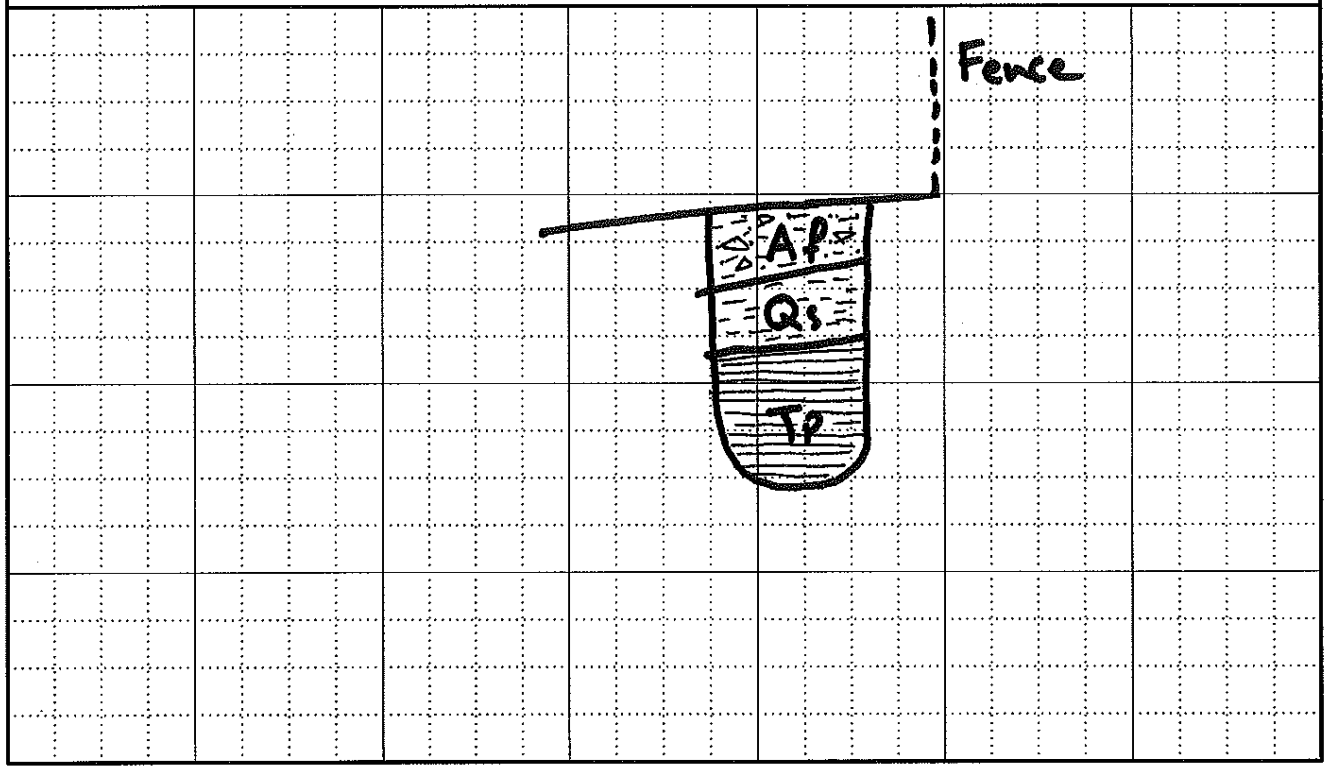
EXPLORATION: TP-6

PROJECT: 418-430 Firmin St | PROJECT NO.: 5462

DATE: November 20, 2017 | LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 1.5' **ARTIFICIAL FILL; Af,** silty clay with sand, very dark brown, damp, firm to stiff, desiccated, few trash
	1.5' - 3.0' **NATIVE SOIL; Qs,** silty clay, very dark brown to black, damp, stiff
075°/25° S-b	3.0' - 6.0' **BEDROCK; Tp,** sandstone and siltstone, white to yellowish orange, damp, dense to very dense, moderately to slightly weathered, poorly bedded
fo - foliation s - shear j - joint b - bedding	Total Depth 6.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



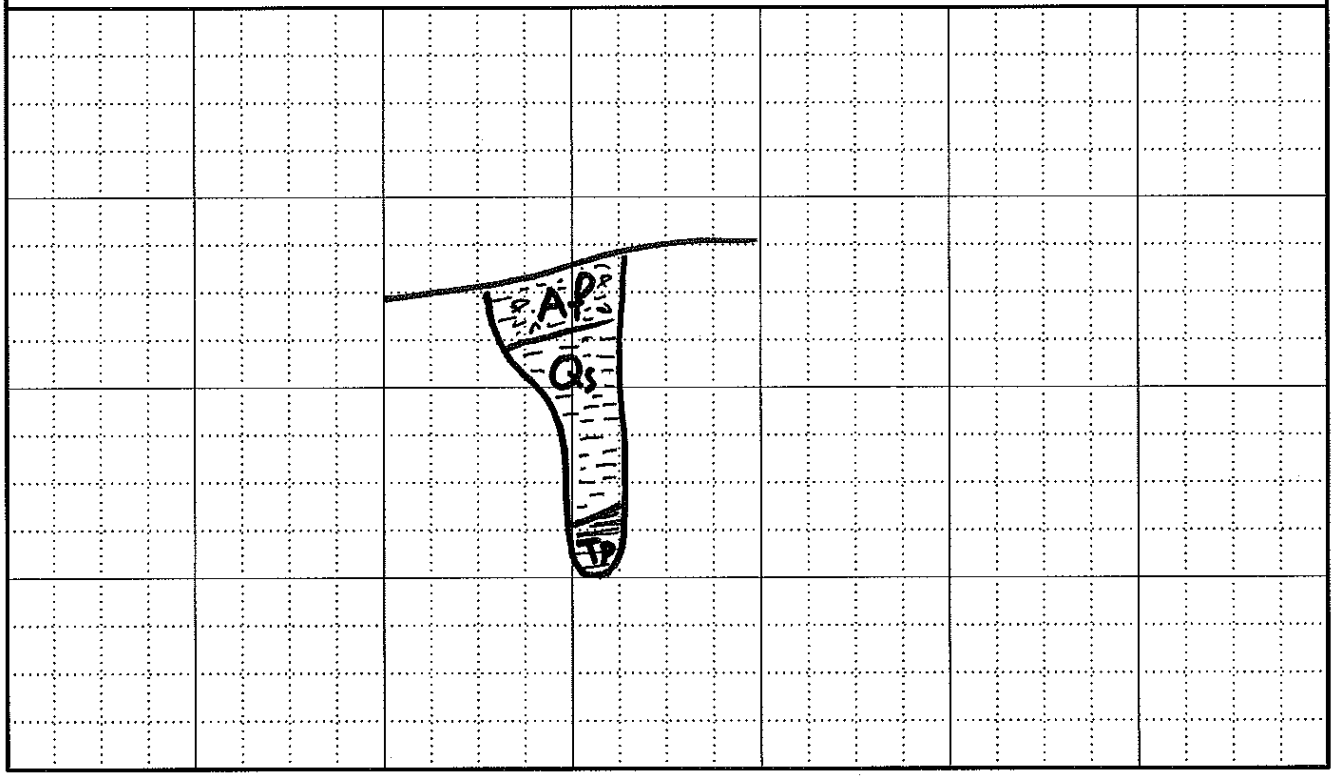
EXPLORATION: TP-7

PROJECT: 418-430 Firmin St | PROJECT NO.: 5462

DATE: November 20, 2017 | LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 1.5' **ARTIFICIAL FILL; Af,** silty clay with sand, very dark brown, damp, firm to stiff, desiccated, few trash
	1.5' - 5.5' **NATIVE SOIL; Qs,** silty clay, very dark brown to black, damp, stiff
	5.5' - 7.0' **BEDROCK; Tp,** sandstone and siltstone, tan to orange, damp, dense
fo - foliation s - shear j - joint b - bedding	Total Depth 7.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



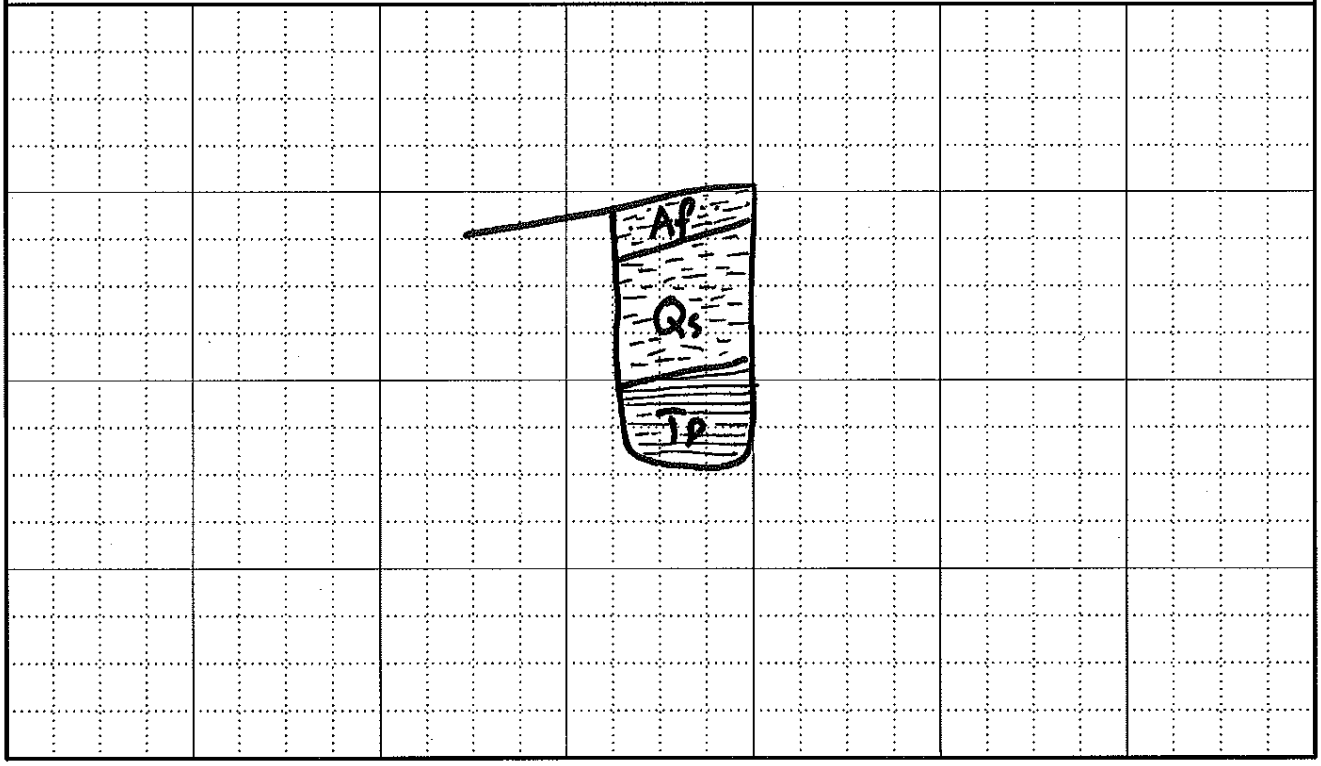
EXPLORATION: TP-8

PROJECT: 418-430 Firmin St | PROJECT NO.: 5462

DATE: November 20, 2017 | LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 1.0' **ARTIFICIAL FILL; Af,** clayey silt with sand, very dark brown, damp, firm
	1.0' - 3.5' **NATIVE SOIL; Qs,** silty clay, very dark brown, slightly moist, stiff, desiccated
	3.5' - 6.0' **BEDROCK; Tp,** silty sandstone, tan to orange, damp, dense to very dense, poorly bedded to massive, moderately to slightly weathered
fo - foliation s - shear j - joint b - bedding	Total Depth 6.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



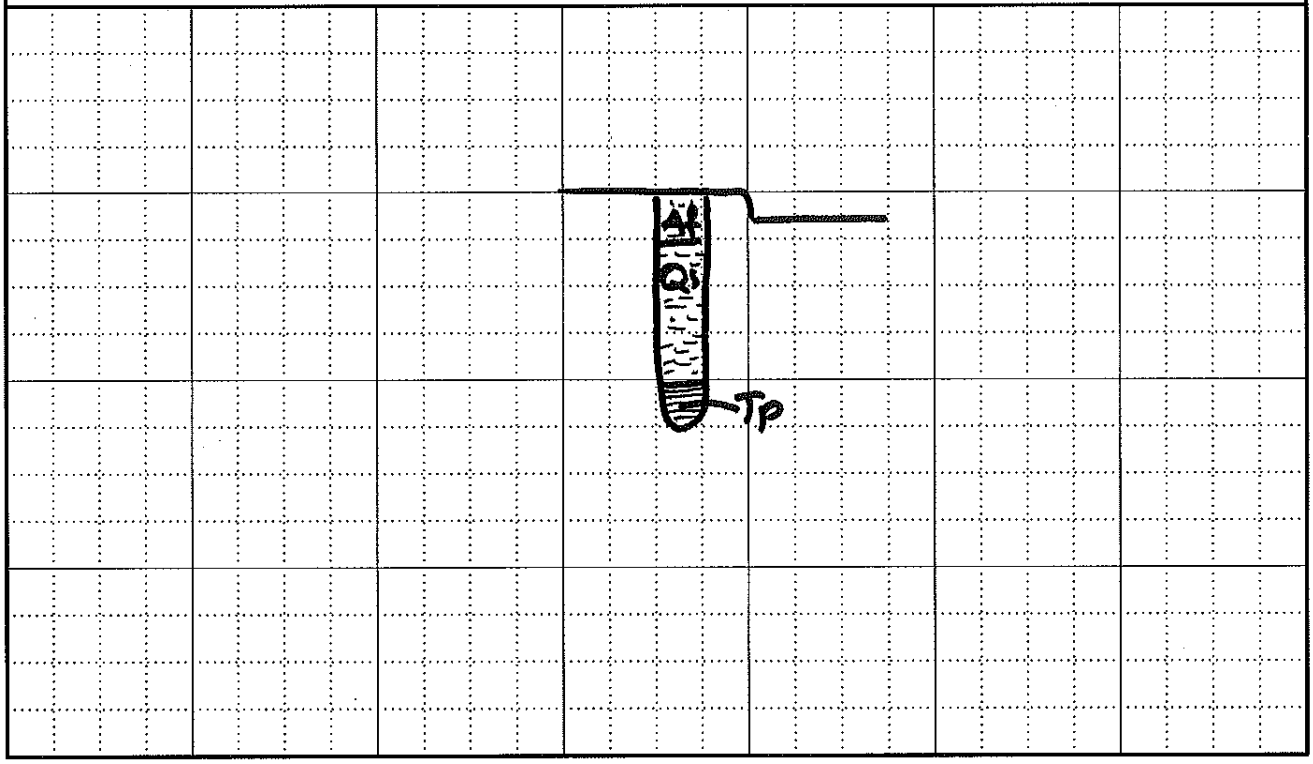
EXPLORATION: TP-9

PROJECT: 418-430 Firmin St | PROJECT NO.: 5462

DATE: November 20, 2017 | LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 1.0' **ARTIFICIAL FILL; Af,** clayey silt with sand, very dark brown, damp, firm
	1.0' - 4.0' **NATIVE SOIL; Qs,** silty clay, very dark brown, slightly moist, stiff, desiccated
	4.0' - 5.0' **BEDROCK; Tp,** sandstone and siltstone, tan to orange, dry, moderately to slightly weathered
fo - foliation s - shear j - joint b - bedding	Total Depth 5.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



EXPLORATION: TP-10

PROJECT: 418-430 Firmin St

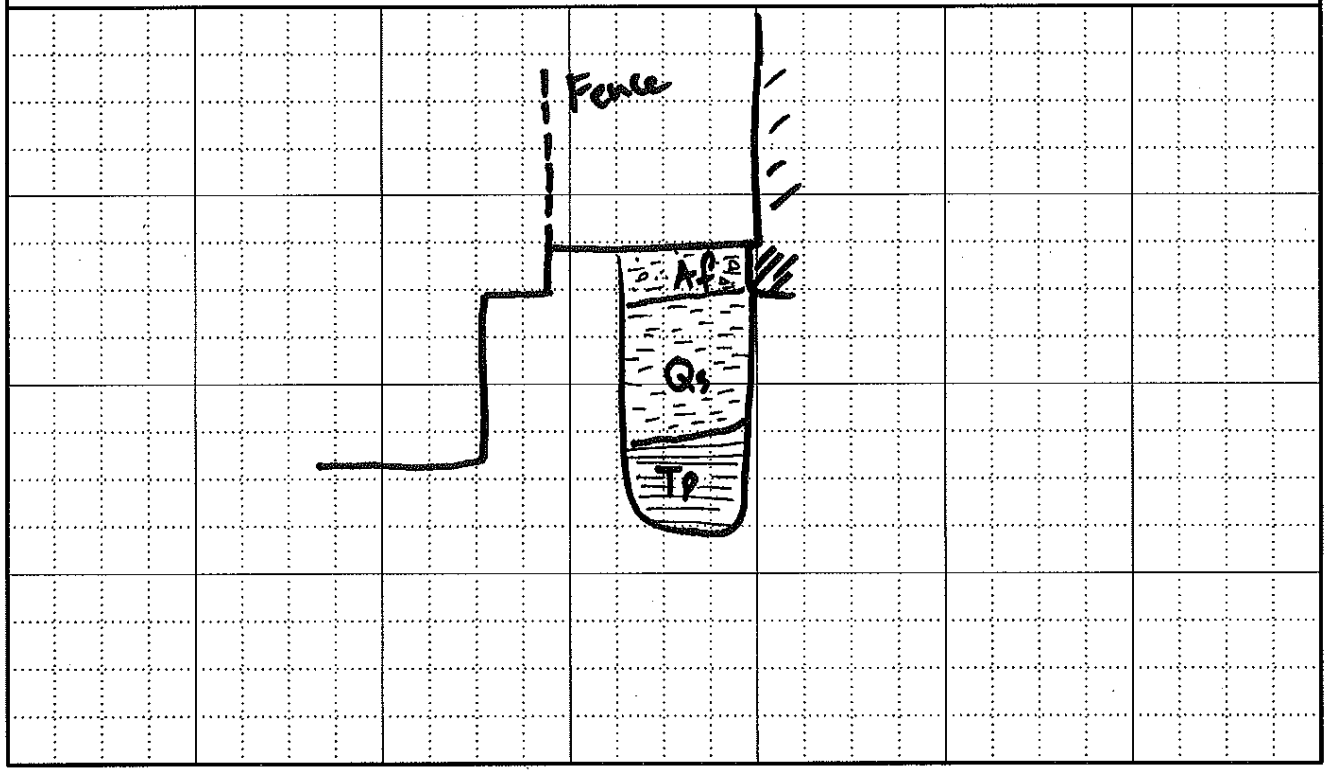
PROJECT NO.: 5462

DATE: November 20, 2017

LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 1.0' **ARTIFICIAL FILL; Af,** clayey silt with sand, very dark brown, damp, firm 1.0' - 4.0' **NATIVE SOIL; Qs,** silty clay, very dark brown, slightly moist, stiff, desiccated 4.0' - 6.0' **BEDROCK; Tp,** silty sandstone, tan to orange, damp, dense to very dense, poorly bedded to massive, moderately to slightly weathered
fo - foliation s - shear j - joint b - bedding	Total Depth 6.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



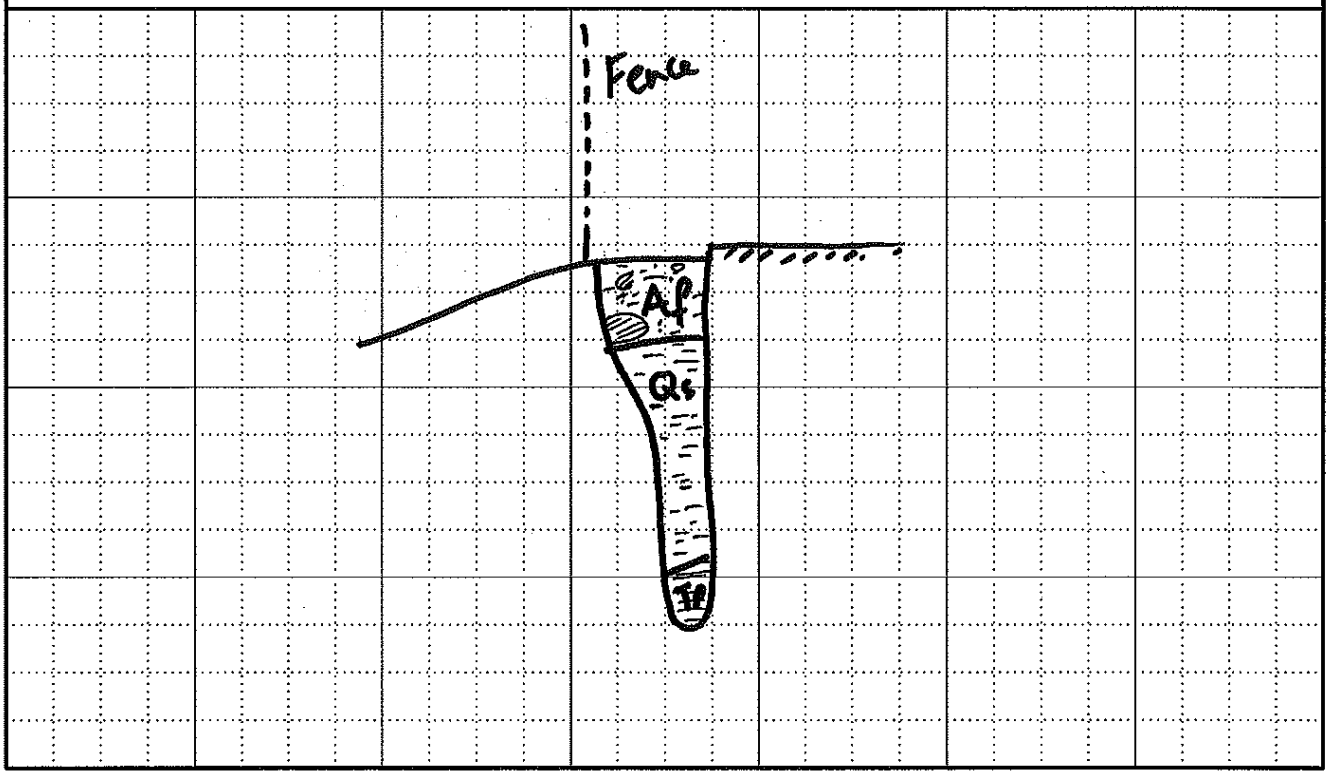
EXPLORATION: TP-11

PROJECT: 418-430 Firmin St | PROJECT NO.: 5462

DATE: November 20, 2017 | LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 2.0' **ARTIFICIAL FILL; Af,** clayey silt with sand, yellowish brown, soft, trash and concrete debris
	2.0' - 6.5' **NATIVE SOIL; Qs,** silty clay, very dark brown to black, damp, stiff
	6.5' - 8.0' **BEDROCK; Tp,** siltstone, olive to white, damp, dense, diatomaceous, moderately weathered
fo - foliation s - shear j - joint b - bedding	Total Depth 8.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



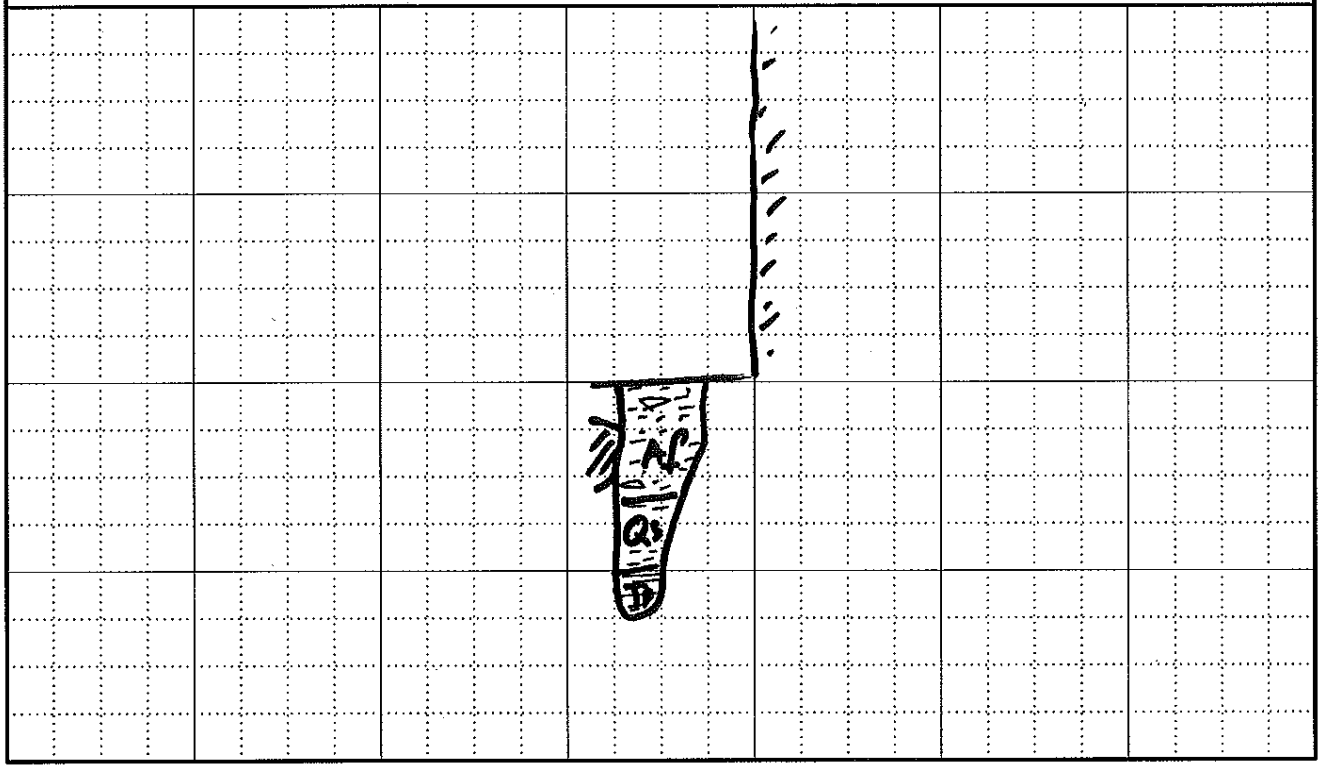
EXPLORATION: TP-12

PROJECT: 418-430 Firmin St | PROJECT NO.: 5462

DATE: November 20, 2017 | LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 2.5' **ARTIFICIAL FILL; Af,** clayey silt with sand, yellowish brown, soft, trash and concrete debris
	2.5' - 4.0' **NATIVE SOIL; Qs,** silty clay, very dark brown to black, damp, stiff
	4.0' - 5.0' **BEDROCK; Tp,** siltstone, olive to white, damp, dense, diatomaceous, moderately weathered
fo - foliation s - shear j - joint b - bedding	Total Depth 5.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



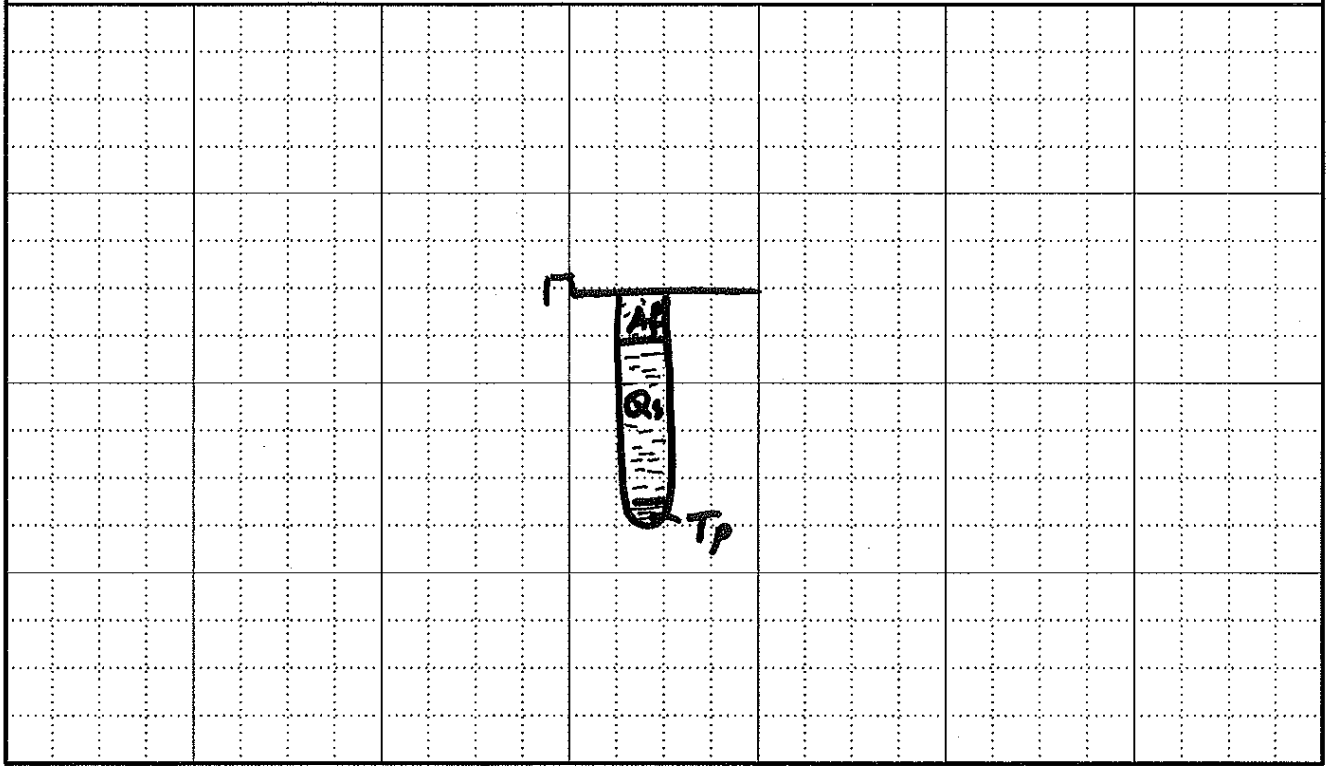
EXPLORATION: TP-13

PROJECT: 418-430 Firmin St | PROJECT NO.: 5462

DATE: November 20, 2017 | LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 1.0' **ARTIFICIAL FILL; Af,** clayey silt with sand, yellowish brown, soft
	1.0' - 4.5' **NATIVE SOIL; Qs,** silty clay, very dark brown to black, damp, stiff
	4.5' - 5.0' **BEDROCK; Tp,** siltstone, olive to white, damp, dense, diatomaceous, moderately weathered
fo - foliation s - shear j - joint b - bedding	Total Depth 5.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



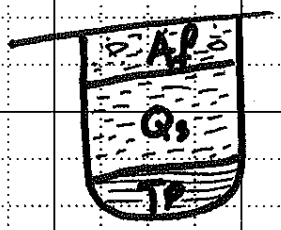
EXPLORATION: TP-14

PROJECT: 418-430 Firmin St | PROJECT NO.: 5462

DATE: November 20, 2017 | LOGGED BY: PRK

ATTITUDE	DESCRIPTION
	0.0' - 1.5' **ARTIFICIAL FILL; Af,** clayey silt with sand, very dark brown, damp, firm
	1.5' - 3.0' **NATIVE SOIL; Qs,** silty clay, very dark brown, slightly moist, stiff, desiccated
100°/55° S-b	3.0' - 4.0' **BEDROCK; Tp,** sandstone and shale, white to tan, dry, dense to very dense, diatomaceous, moderately to slightly weathered, moderately bedded
fo - foliation s - shear j - joint b - bedding	Total Depth 4.0 Feet, No Groundwater, No Caving

SCALE 1"=4' **GENERALIZED PROFILE**



APPENDIX II

LABORATORY TESTING

Laboratory Procedures

Laboratory Recapitulation 1
Laboratory Recapitulation 2

Figures S.1 through S.6

LABORATORY PROCEDURES

Laboratory testing was performed on samples obtained as outlined in the Field Exploration section of this report. All samples were sent to the laboratory for examination, testing in general conformance to specified test methods, and classification, using the Unified Soil Classification System and group symbol.

Moisture and Density Tests

The dry unit weight and moisture content of the undisturbed samples were determined. The results are tabulated in the Laboratory Recapitulation - Table 1.

Shear Tests

Direct single-shear tests were performed with a direct shear machine. The desired normal load is applied to the specimen and allowed to come to equilibrium. The rate of deflection on the sample is approximately 0.005 inches per minute. The samples are tested at higher and/or lower normal loads in order to determine the angle of internal friction and the cohesion. The results are plotted on the Shear Test Diagrams and the results tabulated in the Laboratory Recapitulation - Table 1. The samples were observed prior to and after shearing to ensure the particle size of the sample did not exceed 10% of the diameter of the test specimen in accordance with ASTM standards. Although the soil was described to include gravels they were not included within the samples tested, therefore, the results provide a conservative estimate of the shear strength of the soil.

pH (CTM 532)

A sample of dry soil and distilled water are placed in a flask and allowed to stand for approximately an hour to stabilize. The pH is measured using a pH meter that has been compensated for temperature. The results are tabulated in the Laboratory Recapitulation - Table 2.

Minimum Resistivity (CTM 532)

The electrical resistivity of each soil specimen is conducted in a two-stage process using the soil box method. The first stage measures the resistivity of the soil in its as-received condition and the second stage records the value after saturation with distilled water. The results are tabulated in the Laboratory Recapitulation - Table 2.

Chloride Content (CTM 422)

A sample of dry soil is mixed with distilled water and allowed to stand overnight. The top aliquot of the sample is mixed with chloride indicator and titrated over silver nitrate solution. The chloride content is determined by the difference of the volumes required to complete titration. The results are tabulated in the Laboratory Recapitulation - Table 2.

Sulfate Content (CTM 417)

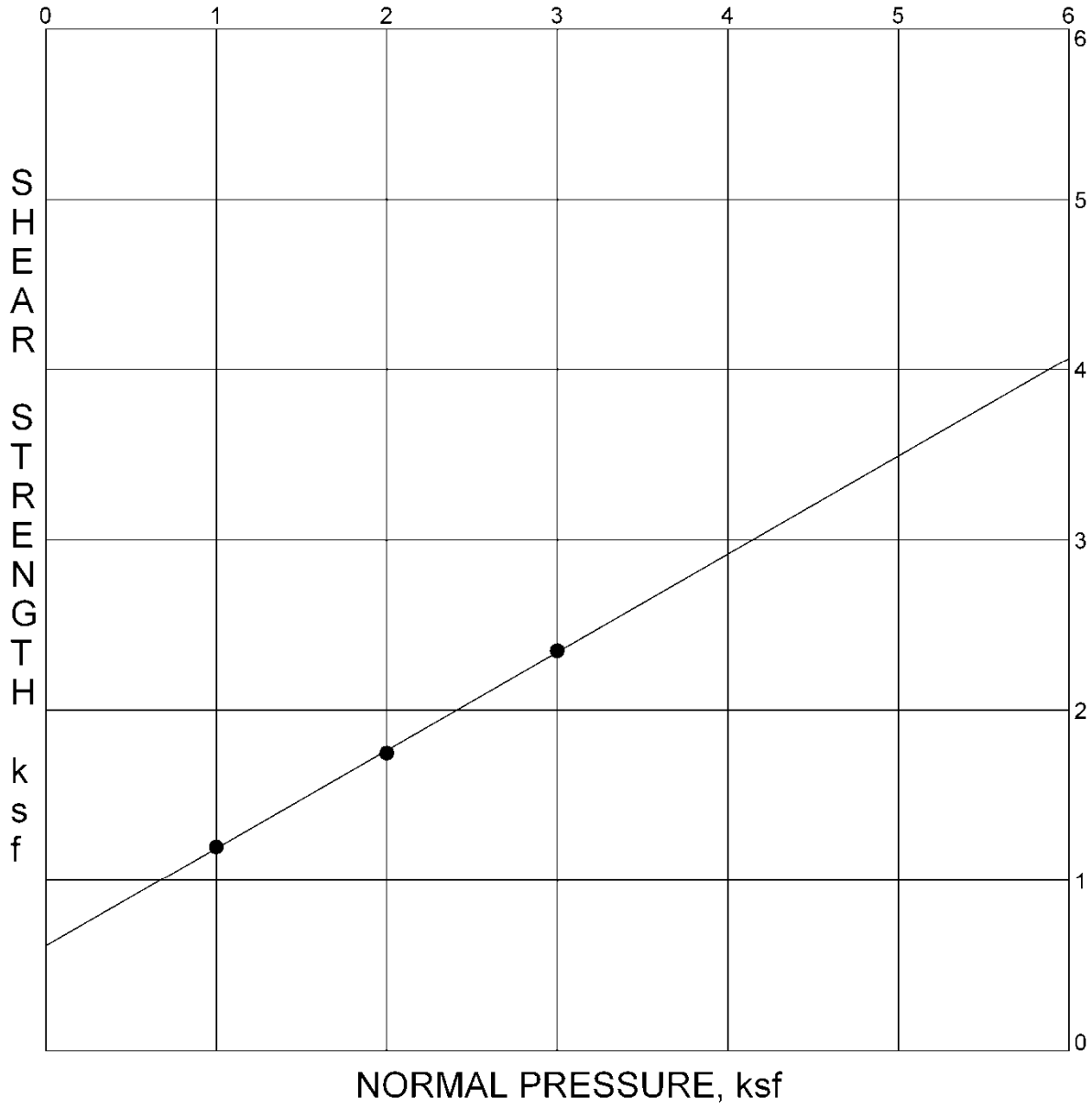
A sample of dry soil is mixed with distilled water and allowed to stand overnight. The top aliquot is mixed with distilled water and a conditioning agent. The solution is then placed in a photometer and the value recorded. The process is repeated with the addition of barium chloride. The sulfate content is determined by the difference of the photometer readings. The results are tabulated in the Laboratory Recapitulation - Table 2.

LABORATORY RECAPITULATION 1 PROJECT: 418-430 Firmin St PROJECT NO.: 5462						
Exploration	**Depth (ft)**	**Material**	**Dry Density In Situ (P.C.F.)**	**Moisture Content (%)**	**Cohesion (K.S.F)**	**Friction Angle (degree)**
B-1	10	Tp	92.3	14.9	0.6	30
B-1	17	Tp	99.3	16	0.65	32
B-1	20	Tp				
B-1	23	Tp	101	14.1	0.7	29
B-1	30	Tp	106.1	16.7		
TP-1	2	Tp	96.8	17.9		
TP-1	5	Tp	91.3	21.6		
TP-11	1	Af	79.1	8.9	0.15	26
TP-11	8	Tp	88.9	14.9		
TP-2	5	Tp	99.7	14.7	0.225	20
TP-3	1	Qs	95	14.2	0.325	18
TP-3	6	Tp	98.6	5.9		
TP-6	2	Qs	96.2	12.8		
TP-6	5	Tp	100.3	16.5		
TP-8	5	Tp	94.3	14.2		

LABORATORY RECAPITULATION 2 PROJECT: 418-430 Firmin St PROJECT NO.: 5462						
Exploration	**Depth (ft)**	**pH**	**As-Is Soil Resistivity (ohm-cm)**	**Minimum Soil Resistivity (ohm-cm)**	**Chloride (%)**	**Sulphate (%)**
B-1	20	7.41	2200	520	0.001	0.04542

PROJECT LOCATION: 418-430 Firmin St | PROJECT NO.: 5462

SAMPLE LOCATION: B-1 @ 10.0 | DESCRIPTION: Tp



Test Results

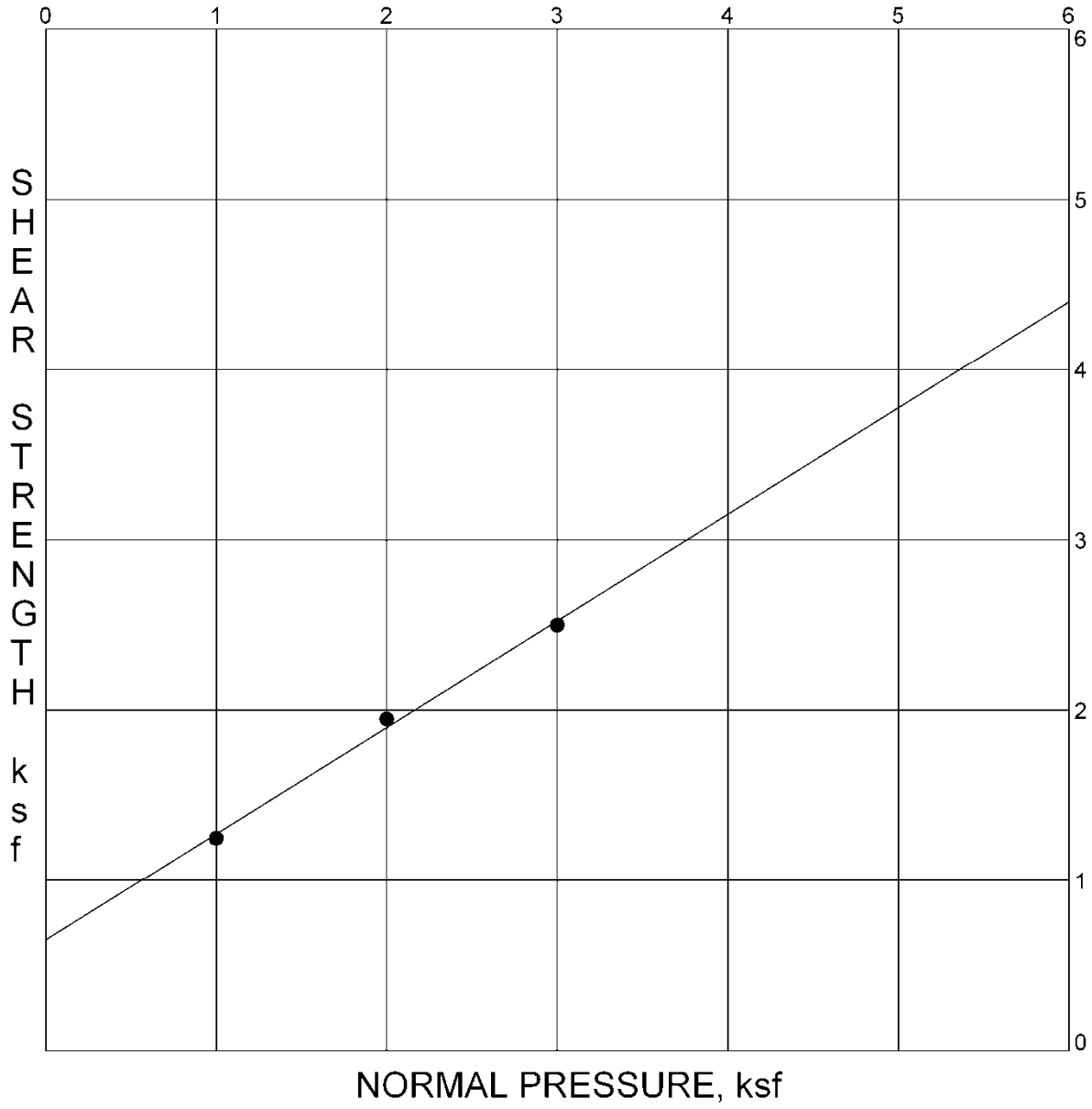
Moisture Content (%)	Density (pcf)	Ultimate Strength
Insitu: 14.9	Dry Density: 92.3	Phi (deg): 30.0
Saturated: 30.5		Cohesion (ksf): 0.600

SHEAR TEST DIAGRAM

Figure S.1

PROJECT LOCATION: 418-430 Firmin St | PROJECT NO.: 5462

SAMPLE LOCATION: B-1 @ 17.0 | DESCRIPTION: Tp



Test Results

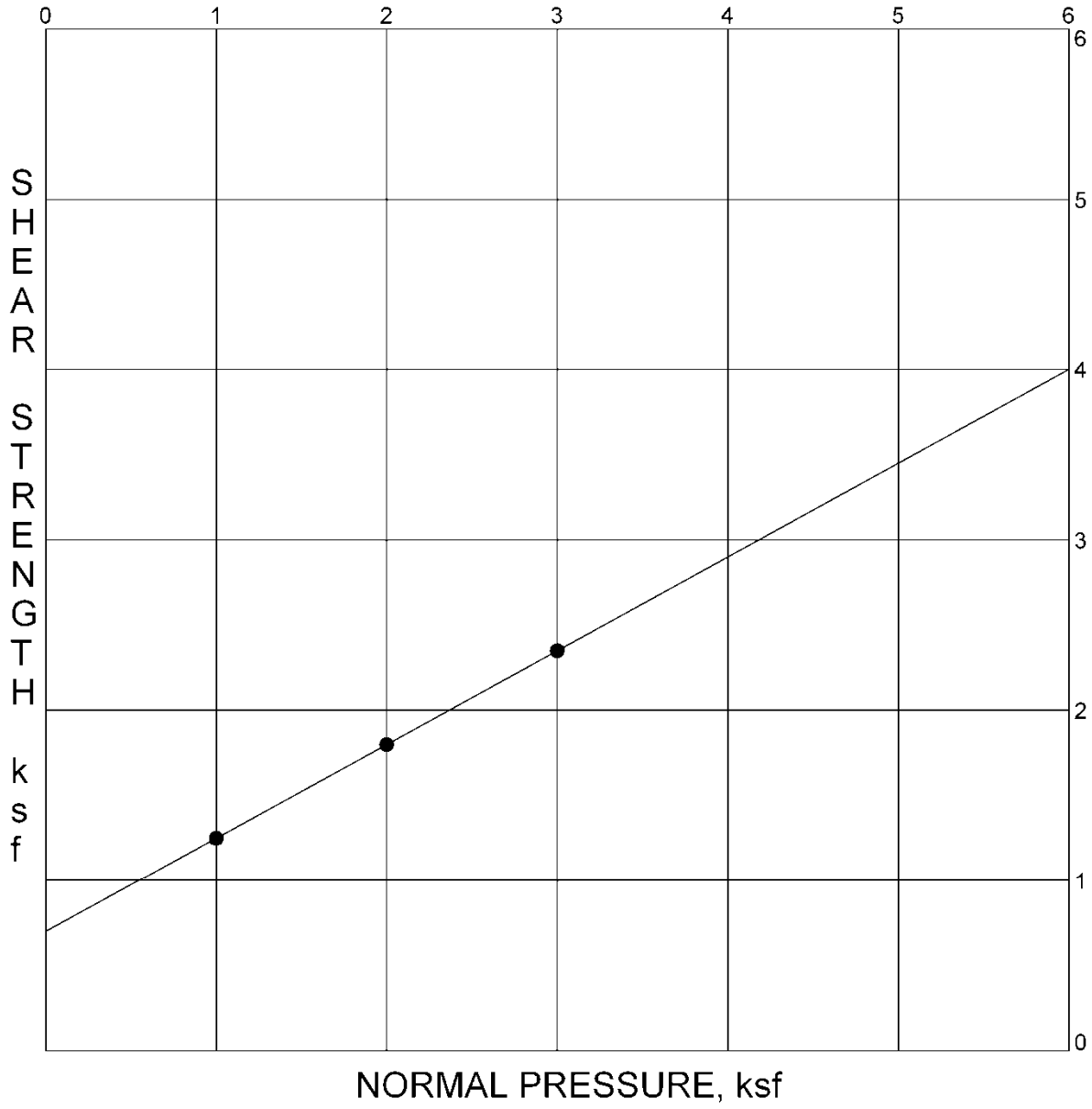
Moisture Content (%)	Density (pcf)	Ultimate Strength
Insitu: 16.0	Dry Density: 99.3	Phi (deg): 32.0
Saturated: 25.7		Cohesion (ksf): 0.650

SHEAR TEST DIAGRAM

Figure S.2

PROJECT LOCATION: 418-430 Firmin St | PROJECT NO.: 5462

SAMPLE LOCATION: B-1 @ 23.0 | DESCRIPTION: Tp



Test Results

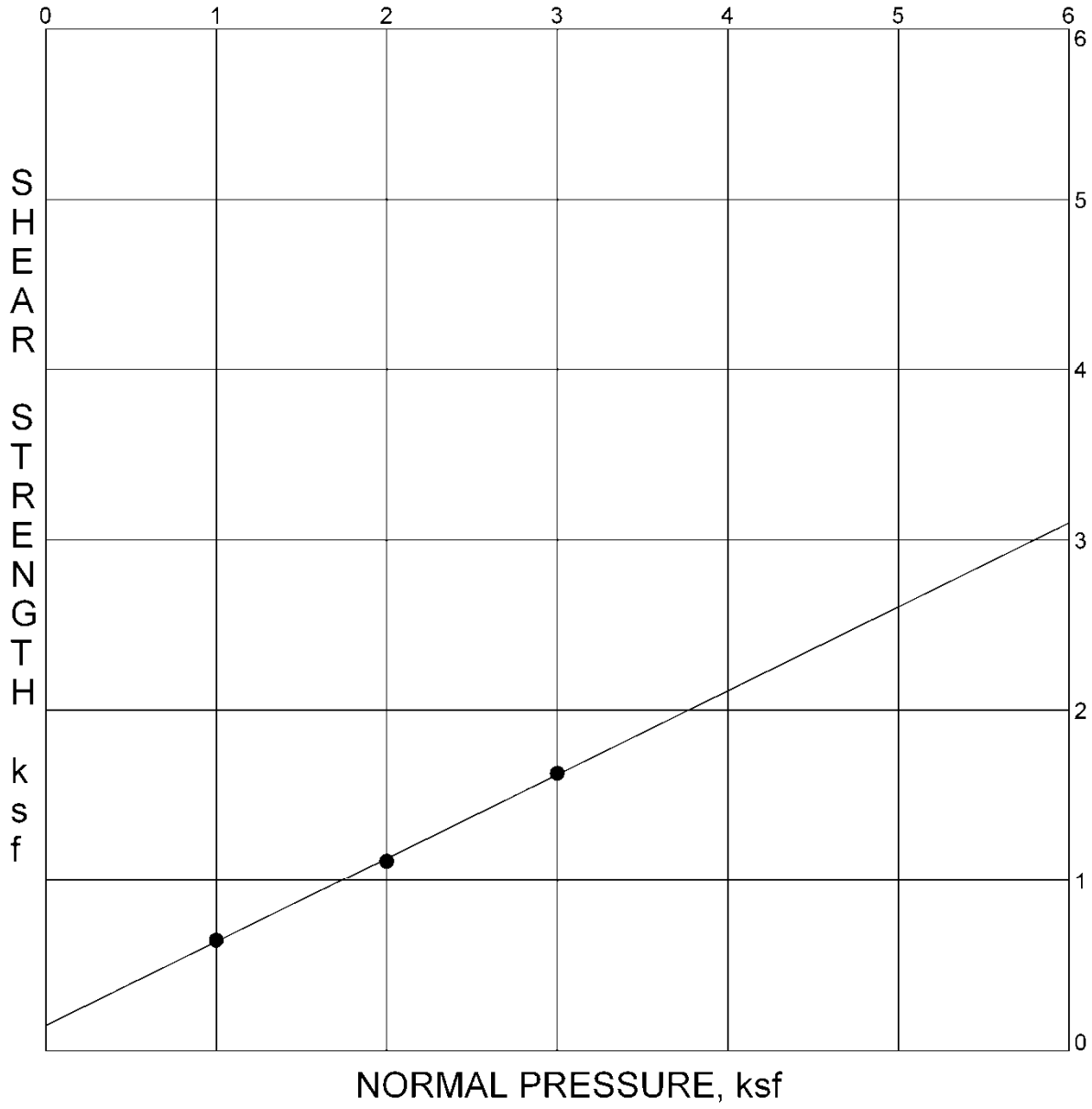
Moisture Content (%)	Density (pcf)	Ultimate Strength
Insitu: 14.1	Dry Density: 101.0	Phi (deg): 29.0
Saturated: 24.7		Cohesion (ksf): 0.700

SHEAR TEST DIAGRAM

Figure S.3

PROJECT LOCATION: 418-430 Firmin St | PROJECT NO.: 5462

SAMPLE LOCATION: TP-11 @ 1.0 | DESCRIPTION: Af



Test Results

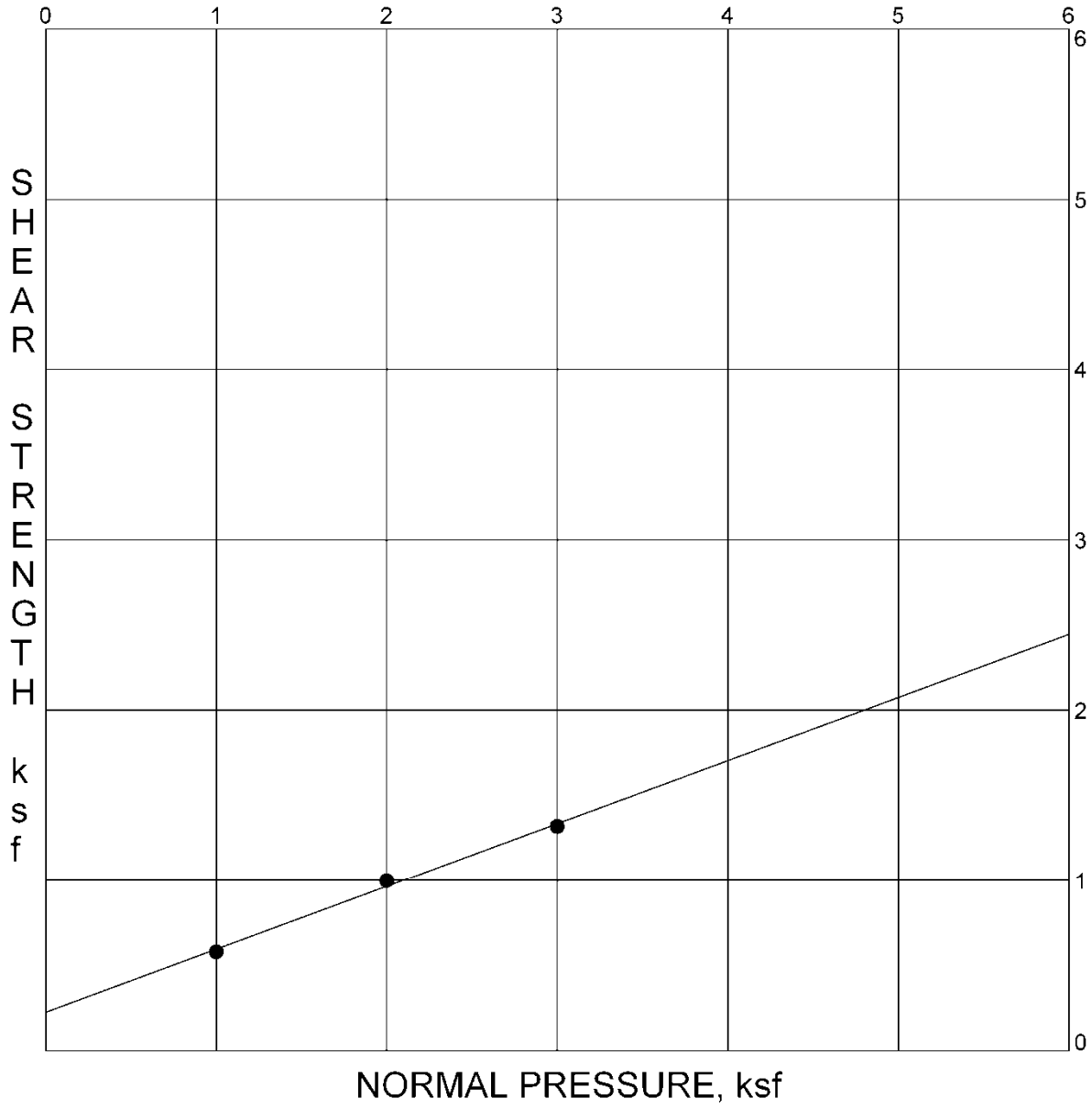
Moisture Content (%)	Density (pcf)	Ultimate Strength
Insitu: 8.9	Dry Density: 79.1	Phi (deg): 26.0
Saturated: 41.7		Cohesion (ksf): 0.150

SHEAR TEST DIAGRAM

Figure S.4

PROJECT LOCATION: 418-430 Firmin St | PROJECT NO.: 5462

SAMPLE LOCATION: TP-2 @ 5.0 | DESCRIPTION: Tp



Test Results

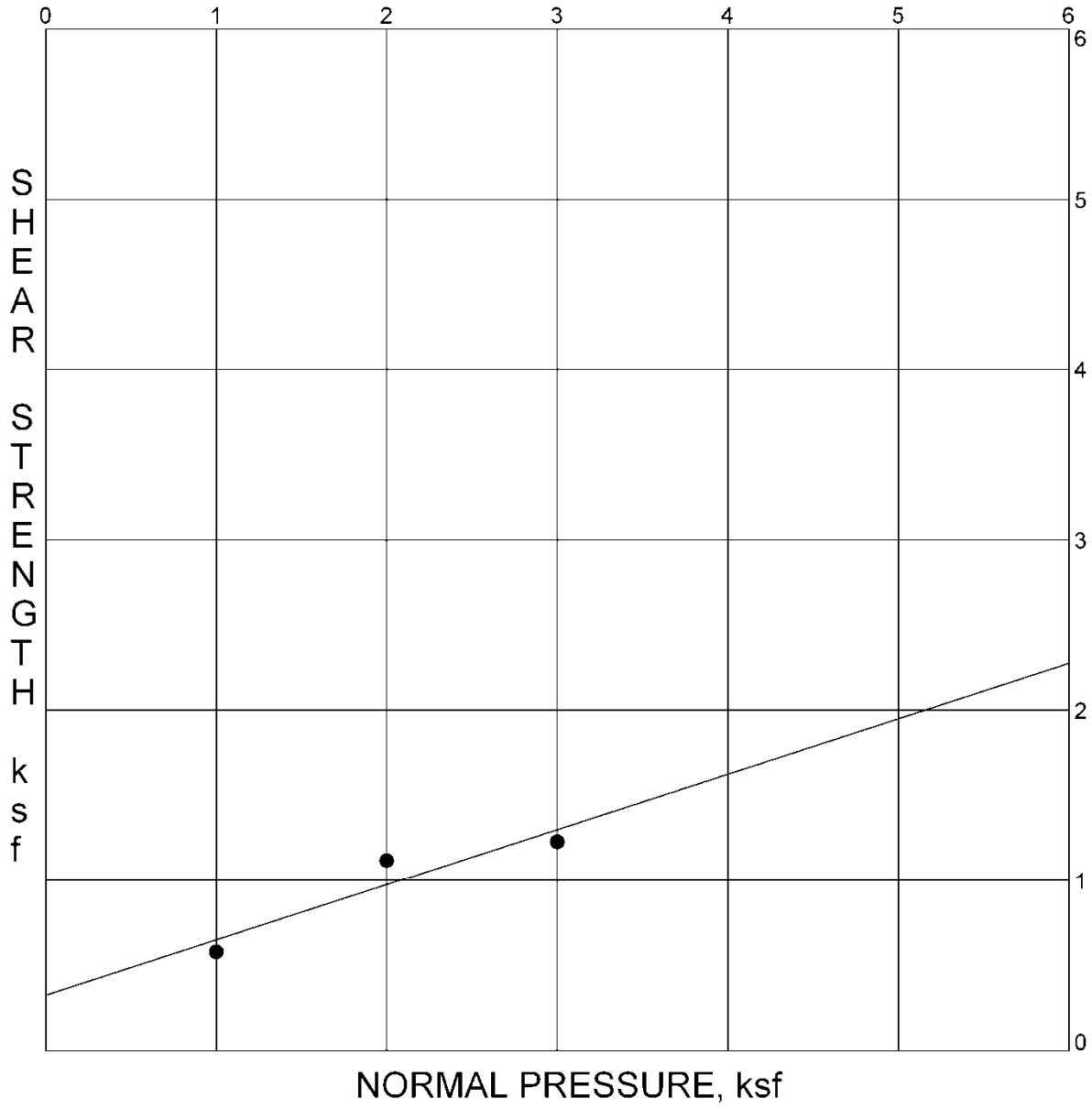
Moisture Content (%)	Density (pcf)	Residual Strength
Insitu: 14.7	Dry Density: 99.7	Phi (deg): 20.0
Saturated: 25.5		Cohesion (ksf): 0.225

SHEAR TEST DIAGRAM

Figure S.5

PROJECT LOCATION: 418-430 Firmin St | PROJECT NO.: 5462

SAMPLE LOCATION: TP-3 @ 1.0 | DESCRIPTION: Qs



Test Results

Moisture Content (%)	Density (pcf)	Ultimate Strength
Insitu: 14.2	Dry Density: 95.0	Phi (deg): 18.0
Saturated: 28.6		Cohesion (ksf): 0.325

SHEAR TEST DIAGRAM

Figure S.6

APPENDIX III

ANALYSES

Bearing Capacity

Lateral Design

Seismic Evaluation

Bearing Capacity of Pad Footings

BEARING CAPACITY ANALYSIS

CALCULATE THE ULTIMATE AND ALLOWABLE BEARING CAPACITIES OF THE BEARING MATERIAL LISTED BELOW USING HANSEN'S METHOD. (REFERENCE: J. BOWLES, *FOUNDATION ANALYSIS AND DESIGN*, 1988, p. 188-194).

CALCULATION PARAMETERS

EARTH MATERIAL:	Tp	EMBEDMENT DEPTH:	2 feet
SHEAR DIAGRAM:	B-1@10	PAD LENGTH:	2 feet
COHESION:	600 psf	PAD WIDTH:	2 feet
PHI ANGLE:	30 degrees	SLOPE ANGLE:	0 degrees
DENSITY:	110 pcf	PAD INCLINATION:	0 degrees
SAFETY FACTOR:	5		
FOOTING TYPE:	P Pad		

CALCULATED RESULTS

HANSEN'S SHAPE, DEPTH, AND INCLINATION FACTORS

Nq =	18.40	Dq =	1.29	Sy =	0.60
Nc =	30.14	Gc =	1.00	Dy =	1.00
Ny =	15.07	Bc =	1.00	Iy =	1.00
Sc =	1.61	Iq =	1.00	Gy =	1.00
Sq =	1.58	Ic =	1.00	Gq =	1.00
Dc =	1.40	Bq =	1.00	By =	1.00

CALCULATED ULTIMATE BEARING CAPACITY (Qult)	49,997.7 pounds
ALLOWABLE BEARING CAPACITY (Qa = Qult / fs)	9,999.5 pounds
PERCENT INCREASE FOR EMBEDMENT DEPTH	7.7%

Bearing Capacity of Strip Footings

BEARING CAPACITY ANALYSIS

CALCULATE THE ULTIMATE AND ALLOWABLE BEARING CAPACITIES OF THE BEARING MATERIAL LISTED BELOW USING HANSEN'S METHOD. (REFERENCE: J. BOWLES, *FOUNDATION ANALYSIS AND DESIGN*, 1988, p. 188-194).

CALCULATION PARAMETERS

EARTH MATERIAL:	Tp	EMBEDMENT DEPTH:	2 feet
SHEAR DIAGRAM:	B-1@10	FOOTING LENGTH:	100 feet
COHESION:	600 psf	FOOTING WIDTH:	2 feet
PHI ANGLE:	30 degrees	SLOPE ANGLE:	0 degrees
DENSITY:	110 pcf	FOOTING INCLINATION:	0 degrees
SAFETY FACTOR:	5		
FOOTING TYPE:	S Strip		

CALCULATED RESULTS

HANSEN'S SHAPE, DEPTH, AND INCLINATION FACTORS

Nq =	18.40	Dq =	1.29	Sy =	0.99
Nc =	30.14	Gc =	1.00	Dy =	1.00
Ny =	15.07	Bc =	1.00	Iy =	1.00
Sc =	1.01	Iq =	1.00	Gy =	1.00
Sq =	1.01	Ic =	1.00	Gq =	1.00
Dc =	1.40	Bq =	1.00	By =	1.00

CALCULATED ULTIMATE BEARING CAPACITY (Qult)	32,548.0 pounds
ALLOWABLE BEARING CAPACITY (Qa = Qult / fs)	6,509.6 pounds
PERCENT INCREASE FOR EMBEDMENT DEPTH	7.6%

Passive Pressure of Conventional Footings

PASSIVE EARTH PRESSURE

USE RANKINE'S METHOD TO CALCULATE THE PASSIVE EARTH PRESSURE. USE THE PROCEDURE IN NAVFAC DM-7, 1982, (p 7.2-21, Figure 2).

CALCULATION PARAMETERS

EARTH MATERIAL:	Tp	SAFETY FACTOR (fs):	1.5
SHEAR DIAGRAM:	B-1@10	INITIAL SEARCH DEPTH:	1
COHESION:	600 psf	FINAL SEARCH DEPTH:	5
PHI ANGLE:	30 degrees	LIMIT PASSIVE (Y OR N):	Y
DENSITY:	110 pcf	MAXIMUM PASSIVE:	100,000.0 pounds
		Cd (C/fs):	400.0 psf
		PhiD = atan(tan(phi)/fs) =	21.1 degrees

FOOTING DEPTH (feet)	TOTAL PASSIVE FORCE Pp (pounds)	PASSIVE EARTH PRESSURE AT DEPTH - SigmaP (psf)	INCREASE IN PASSIVE EARTH PRESSURE WITH EMBEDMENT DEPTH (psf/f)
1	1,281.8	1,398.5	1,398.5
2	2,796.9	1,631.8	233.3
3	4,545.4	1,865.1	233.3
4	6,527.1	2,098.4	233.3
5	8,742.2	2,331.8	233.3

Passive Pressure of Pile Footings

PASSIVE PRESSURE-TRIAL WEDGE

CALCULATE THE PASSIVE EARTH PRESSURE USING THE TRIAL WEDGE METHOD. BOTH COHESIVE AND FRICTIONAL RESISTANCE ARE ASSUMED ALONG THE BASE AND SIDES OF THE PASSIVE FAILURE WEDGE. THE LATERAL EARTH PRESSURE ON THE SIDES OF THE WEDGE IS THE AT-REST PRESSURE Ko (Ko = 1-SIN(PHI)).

CALCULATION PARAMETERS

EARTH MATERIAL:	Tp	SAFETY FACTOR (fs):	2.5
SHEAR DIAGRAM:	B-1@10	SLOPE ANGLE:	0 degrees
COHESION:	600 psf	Cd Base (C/fs):	240.0 psf
PHI ANGLE:	30 degrees	PhiD = atan(tan(phi)fs) =	13.0 degrees
DENSITY:	110 pcf	INITIAL SEARCH DEPTH:	1 feet
PASSIVE WEDGE BOUNDARY CONDITIONS		FINAL SEARCH DEPTH:	21 feet
WEDGE WIDTH:	1 feet	POINT SURCHARGE:	0
COHESION:	600 psf	Cd Sides (C/fs):	240.0 psf
PHI ANGLE:	30 degrees	PhiD = atan(tan(phi)/fs) =	13.0 degrees

TRIAL DEPTH* (feet)	CRITICAL FAILURE ANGLE** (degrees)	TOTAL EXTERNAL SURCHARGE (kips)	WEIGHT TRIAL WEDGE (kips)	TOTAL PASSIVE FORCE (pounds)	PASSIVE FORCE AT DEPTH (plf)	CHANGE Pp PER DEPTH INCREASE (plf)
1	42	0.0	0.06	1,163.8	2,327.6	2,327.6
2	44	0.0	0.23	3,380.9	3,380.9	1,053.3
3	45	0.0	0.50	6,652.3	4,434.8	1,053.9
4	45	0.0	0.88	10,982.0	5,491.0	1,056.1
5	45	0.0	1.38	16,370.4	6,548.2	1,057.2
6	45	0.0	1.98	22,817.5	7,605.8	1,057.7
7	45	0.0	2.70	30,323.4	8,663.8	1,058.0
8	45	0.0	3.52	38,888.0	9,722.0	1,058.2
9	45	0.0	4.46	48,511.3	10,780.3	1,058.3
10	45	0.0	5.50	59,193.4	11,838.7	1,058.4
11	45	0.0	6.66	70,934.2	12,897.1	1,058.4
12	45	0.0	7.92	83,733.7	13,955.6	1,058.5
13	45	0.0	9.30	97,592.0	15,014.1	1,058.5
14	45	0.0	10.78	112,508.9	16,072.7	1,058.6
15	45	0.0	12.38	128,484.7	17,131.3	1,058.6
16	45	0.0	14.08	145,519.1	18,189.9	1,058.6
17	45	0.0	15.90	163,612.3	19,248.5	1,058.6
18	45	0.0	17.82	182,764.1	20,307.1	1,058.6
19	45	0.0	19.86	202,974.8	21,365.8	1,058.6
20	45	0.0	22.00	224,244.1	22,424.4	1,058.6
21	45	0.0	24.26	246,572.2	23,483.1	1,058.7

* NUMBER TRIAL WEDGES ANALYZED PER FOOT OF EMBEDMENT DEPTH = 45 TRIALS

** ANGLES ARE MEASURED FROM THE HORIZONTAL (NEGATIVE ANGLES ARE DOWNWARD TOWARD THE SLOPE)

CONCLUSIONS: CALCULATIONS INDICATE THAT THE ALLOWABLE PASSIVE EARTH PRESSURE MAY BE COMPUTED PER THE ABOVE TABLE.

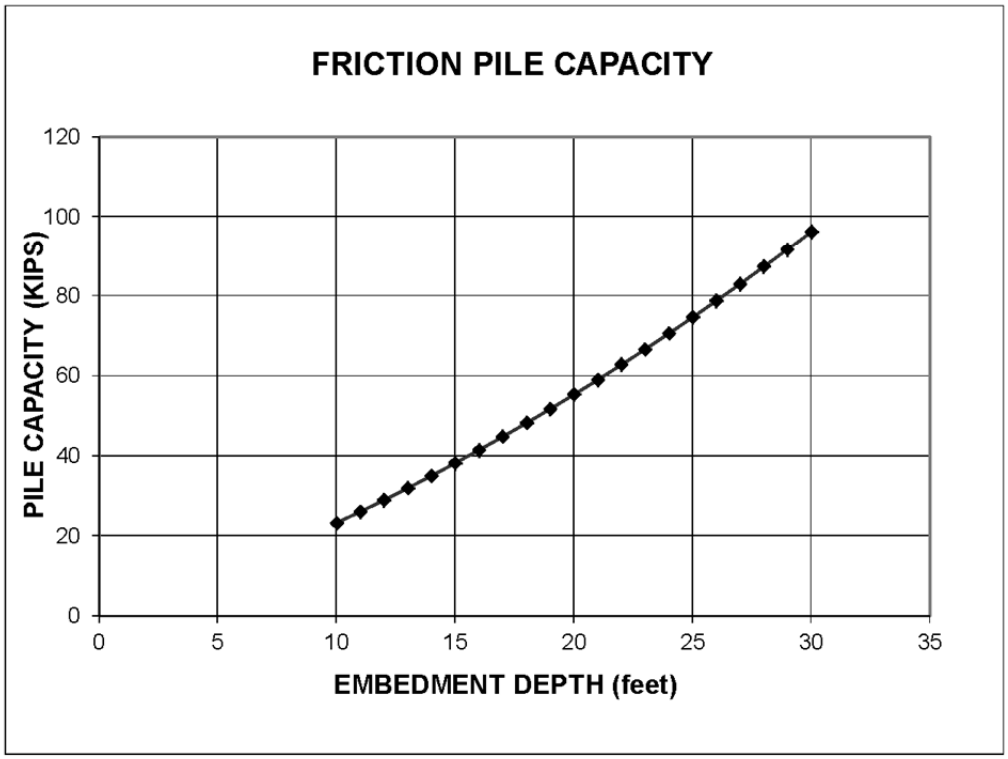
Pile Capacity of 2 Foot Diameter Piles

PILE CAPACITY

CALCULATE ALLOWABLE SKIN FRICTION RESISTANCE FOR DRILLED, CAST IN PLACE CONCRETE PILES. SKIN FRICTION IS TABULATED AS A FUNCTION OF EMBEDMENT DEPTH. (REFERENCES: NAVFAC DM-7.2, PAGES 193-193 AND J.E. BOWLES, "*FOUNDATION ANALYSIS AND DESIGN*," 1988.)

CALCULATION PARAMETERS

EARTH MATERIAL:	Tp	PILE DIAMETER:	2 feet
SHEAR DIAGRAM:	B-1@10	INITIAL PILE DEPTH:	10 feet
COHESION:	600 psf	FINAL PILE DEPTH:	30 feet
PHI ANGLE:	30 degrees	EXTERNAL SURCHARGE:	0 pounds
DENSITY:	110 pcf	ADHESION VALUE:	1.00
SAFETY FACTOR:	2	PILE/SOIL FRICTION:	20 degrees
COMPRESSION/TENSION:	C	LATERAL COEFF. (Ko)	0.70
PILE TYPE:	COMPRESSION PILE	NO GROUNDWATER	0.00 feet



CONCLUSIONS:

THE CALCULATED CAPACITY OF 24 INCH DIAMETER PILES, AS A FUNCTION OF EMBEDMENT, ARE SHOWN IN THE GRAPH.

Temporary Stability of 5 Foot High Cuts in Soil

TEMPORARY EXCAVATION HEIGHT

CALCULATE THE HEIGHT TO WHICH TEMPORARY EXCAVATIONS ARE STABLE (NEGATIVE THRUST). THE EXCAVATION HEIGHT AND BACKSLOPE AND SURCHARGE CONDITIONS ARE LISTED BELOW. ASSUME THE EARTH MATERIAL IS SATURATED WITH NO EXCESS HYDROSTATIC PRESSURE.

CALCULATION PARAMETERS

EARTH MATERIAL:	Qs	WALL HEIGHT:	5 feet
SHEAR DIAGRAM:	TP-3@1	BACKSLOPE ANGLE:	0 degrees
COHESION:	325 psf	SURCHARGE:	0 pounds
PHI ANGLE:	18 degrees	SURCHARGE TYPE:	U Uniform
DENSITY:	110 pcf	INITIAL FAILURE ANGLE:	20 degrees
SAFETY FACTOR:	1.25	FINAL FAILURE ANGLE:	70 degrees
WALL FRICTION:	0 degrees	INITIAL TENSION CRACK:	4 feet
CD (C/FS):	260.0 psf	FINAL TENSION CRACK:	30 feet
PHID = ATAN(TAN(PHI)/FS) =	14.6 degrees		

CALCULATED RESULTS

CRITICAL FAILURE ANGLE	34 degrees
AREA OF TRIAL FAILURE WEDGE	14.6 square feet
TOTAL EXTERNAL SURCHARGE	0.0 pounds
WEIGHT OF TRIAL FAILURE WEDGE	1606.4 pounds
NUMBER OF TRIAL WEDGES ANALYZED	1377 trials
LENGTH OF FAILURE PLANE	4.8 feet
DEPTH OF TENSION CRACK	2.3 feet
HORIZONTAL DISTANCE TO UPSLOPE TENSION CRACK	4.0 feet
CALCULATED HORIZONTAL THRUST	**-720.8 pounds**
CALCULATED EQUIVALENT FLUID PRESSURE	**-57.7 pcf**
MAXIMUM HEIGHT OF TEMPORARY EXCAVATION	**5.0 feet**

Cross-Bedding Retaining Wall Calculations (16 Feet High with Level Backfill)

RETAINING WALL

CALCULATE THE DESIGN MINIMUM EQUIVALENT FLUID PRESSURE (EFP) FOR PROPOSED RETAINING WALLS. THE WALL HEIGHT AND BACKSLOPE AND SURCHARGE CONDITIONS ARE LISTED BELOW. ASSUME THE BACKFILL IS SATURATED WITH NO EXCESS HYDROSTATIC PRESSURE. THE MONONOBE-OKABE METHOD USED TO CALCULATE SEISMIC FORCES.

CALCULATION PARAMETERS

EARTH MATERIAL:	Tp	WALL HEIGHT	16 feet
SHEAR DIAGRAM:	B-1@10	BACKSLOPE ANGLE:	0 degrees
COHESION:	600 psf	SURCHARGE:	0 pounds
PHI ANGLE:	30 degrees	SURCHARGE TYPE:	U Uniform
DENSITY	125 pcf	INITIAL FAILURE ANGLE:	40 degrees
SAFETY FACTOR:	1.5	FINAL FAILURE ANGLE:	70 degrees
WALL FRICTION	0 degrees	INITIAL TENSION CRACK:	5 feet
CD (C/FS):	400.0 psf	FINAL TENSION CRACK:	40 feet

PHID = ATAN(TAN(PHI)/FS) = 21.1 degrees

HORIZONTAL PSEUDO STATIC SEISMIC COEFFICIENT (k_h) 0 %g

VERTICAL PSEUDO STATIC SEISMIC COEFFICIENT (k_v) 0 %g

CALCULATED RESULTS

CRITICAL FAILURE ANGLE	55 degrees
AREA OF TRIAL FAILURE WEDGE	62.1 square feet
TOTAL EXTERNAL SURCHARGE	0.0 pounds
WEIGHT OF TRIAL FAILURE WEDGE	7768.5 pounds
NUMBER OF TRIAL WEDGES ANALYZED	1116 trials
LENGTH OF FAILURE PLANE	8.7 feet
DEPTH OF TENSION CRACK	8.9 feet
HORIZONTAL DISTANCE TO UPSLOPE TENSION CRACK	5.0 feet
CALCULATED HORIZONTAL THRUST ON WALL	**1306.9 pounds**
CALCULATED EQUIVALENT FLUID PRESSURE	**10.2 pcf**
DESIGN EQUIVALENT FLUID PRESSURE	**pcf**

Seismic Cross-Bedding Retaining Wall Calculations (16 Feet High with Level Backfill)

RETAINING WALL

CALCULATE THE DESIGN MINIMUM EQUIVALENT FLUID PRESSURE (EFP) FOR PROPOSED RETAINING WALLS. THE WALL HEIGHT AND BACKSLOPE AND SURCHARGE CONDITIONS ARE LISTED BELOW. ASSUME THE BACKFILL IS SATURATED WITH NO EXCESS HYDROSTATIC PRESSURE. THE MONONOBE-OKABE METHOD USED TO CALCULATE SEISMIC FORCES.

CALCULATION PARAMETERS

EARTH MATERIAL:	Tp	WALL HEIGHT	16 feet
SHEAR DIAGRAM:	B-1@10	BACKSLOPE ANGLE:	0 degrees
COHESION:	600 psf	SURCHARGE:	0 pounds
PHI ANGLE:	30 degrees	SURCHARGE TYPE:	U Uniform
DENSITY	125 pcf	INITIAL FAILURE ANGLE:	40 degrees
SAFETY FACTOR:	1	FINAL FAILURE ANGLE:	70 degrees
WALL FRICTION	0 degrees	INITIAL TENSION CRACK:	5 feet
CD (C/FS):	600.0 psf	FINAL TENSION CRACK:	40 feet

PHID = ATAN(TAN(PHI)/FS) = 30.0 degrees

HORIZONTAL PSEUDO STATIC SEISMIC COEFFICIENT (k_h) 0.32 %g

VERTICAL PSEUDO STATIC SEISMIC COEFFICIENT (k_v) 0 %g

CALCULATED RESULTS

CRITICAL FAILURE ANGLE	50 degrees
AREA OF TRIAL FAILURE WEDGE	65.1 square feet
TOTAL EXTERNAL SURCHARGE	0.0 pounds
WEIGHT OF TRIAL FAILURE WEDGE	8137.9 pounds
NUMBER OF TRIAL WEDGES ANALYZED	1116 trials
LENGTH OF FAILURE PLANE	7.8 feet
DEPTH OF TENSION CRACK	10.0 feet
HORIZONTAL DISTANCE TO UPSLOPE TENSION CRACK	5.0 feet
CALCULATED HORIZONTAL THRUST ON WALL	**1264.8 pounds**

Cross-Bedding At Rest Retaining Wall Calculations

AT REST PRESSURE CALCULATION

CALCULATION PARAMETERS

EARTH MATERIAL:	Tp	COHESION:	600	psf
SHEAR DIAGRAM:	B-1@10	PHI ANGLE:	30	degrees
		DENSITY:	125	pcf

CALCULATED RESULTS

AT REST PRESSURE	63	pcf

CONCLUSIONS:

THE CALCULATED PRESSURE DUE TO AT REST CONDITIONS ARE PRESENTED IN THE TABLE.

Temporary Stability of 16 Foot High Cuts in Cross Bedding

TEMPORARY EXCAVATION HEIGHT

CALCULATE THE HEIGHT TO WHICH TEMPORARY EXCAVATIONS ARE STABLE (NEGATIVE THRUST). THE EXCAVATION HEIGHT AND BACKSLOPE AND SURCHARGE CONDITIONS ARE LISTED BELOW. ASSUME THE EARTH MATERIAL IS SATURATED WITH NO EXCESS HYDROSTATIC PRESSURE.

CALCULATION PARAMETERS

EARTH MATERIAL:	Tp	WALL HEIGHT:	16 feet
SHEAR DIAGRAM:	B-1@10	BACKSLOPE ANGLE:	0 degrees
COHESION:	600 psf	SURCHARGE:	0 pounds
PHI ANGLE:	30 degrees	SURCHARGE TYPE:	U Uniform
DENSITY:	110 pcf	INITIAL FAILURE ANGLE:	20 degrees
SAFETY FACTOR:	1.25	FINAL FAILURE ANGLE:	70 degrees
WALL FRICTION:	0 degrees	INITIAL TENSION CRACK:	4 feet
CD (C/FS):	480.0 psf	FINAL TENSION CRACK:	30 feet
PHID = ATAN(TAN(PHI)/FS) =	24.8 degrees		

CALCULATED RESULTS

CRITICAL FAILURE ANGLE	53 degrees
AREA OF TRIAL FAILURE WEDGE	53.4 square feet
TOTAL EXTERNAL SURCHARGE	0.0 pounds
WEIGHT OF TRIAL FAILURE WEDGE	5872.2 pounds
NUMBER OF TRIAL WEDGES ANALYZED	1377 trials
LENGTH OF FAILURE PLANE	6.6 feet
DEPTH OF TENSION CRACK	10.7 feet
HORIZONTAL DISTANCE TO UPSLOPE TENSION CRACK	4.0 feet
CALCULATED HORIZONTAL THRUST	**-136.9 pounds**
CALCULATED EQUIVALENT FLUID PRESSURE	**-1.1 pcf**
MAXIMUM HEIGHT OF TEMPORARY EXCAVATION	**16.0 feet**

Shoring Piles (16 Feet High with Level Backfill)

SHORING PILE

CALCULATE THE DESIGN MINIMUM EQUIVALENT FLUID PRESSURE (EFP) FOR PROPOSED RETAINING WALLS. THE WALL HEIGHT AND BACKSLOPE AND SURCHARGE CONDITIONS ARE LISTED BELOW. ASSUME THE BACKFILL IS SATURATED WITH NO EXCESS HYDROSTATIC PRESSURE. THE MONONOBE-OKABE METHOD USED TO CALCULATE SEISMIC FORCES.

CALCULATION PARAMETERS

EARTH MATERIAL:	Tp	RETAINED LENGTH	16 feet
SHEAR DIAGRAM:	B-1@10	BACKSLOPE ANGLE:	0 degrees
COHESION:	600 psf	SURCHARGE:	0 pounds
PHI ANGLE:	30 degrees	SURCHARGE TYPE:	U Uniform
DENSITY	110 pcf	INITIAL FAILURE ANGLE:	40 degrees
SAFETY FACTOR:	1.25	FINAL FAILURE ANGLE:	70 degrees
PILE FRICTION	0 degrees	INITIAL TENSION CRACK:	5 feet
CD (C/FS):	480.0 psf	FINAL TENSION CRACK:	40 feet

PHID = ATAN(TAN(PHI)/FS) = 24.8 degrees

HORIZONTAL PSEUDO STATIC SEISMIC COEFFICIENT (k_h) 0 %g

VERTICAL PSEUDO STATIC SEISMIC COEFFICIENT (k_v) 0 %g

CALCULATED RESULTS

CRITICAL FAILURE ANGLE	52 degrees
AREA OF TRIAL FAILURE WEDGE	64.0 square feet
TOTAL EXTERNAL SURCHARGE	0.0 pounds
WEIGHT OF TRIAL FAILURE WEDGE	7040.1 pounds
NUMBER OF TRIAL WEDGES ANALYZED	1116 trials
LENGTH OF FAILURE PLANE	8.1 feet
DEPTH OF TENSION CRACK	9.6 feet
HORIZONTAL DISTANCE TO UPSLOPE TENSION CRACK	5.0 feet
CALCULATED THRUST ON PILE	**-359.8 pounds**
CALCULATED EQUIVALENT FLUID PRESSURE	**-2.8 pcf**
DESIGN EQUIVALENT FLUID PRESSURE	**pcf**

Along Bedding Wedge Analysis (10 Foot Static and Seismic Walls)

STABILITY ANALYSIS B-B'

Seismic Coef.= 0.32

Slice #	Phi	cohesion	density	length	angle	H1	H2	Hz	Area
1.0	20.0	225.0	125.0	19.0	30.0	0.0	10.0	17.0	85.0

Slice #	w eight	driving	normal	resisting	seismic driving	seismic normal	seismic resisting
1.0	10.6	5.3	9.2	7.6	8.3	7.5	7.0

	Static Analysis				Seismic Analysis				
	TOTAL DRIVING=		5.3	kips	TOTAL DRIVING=		8.3	kips	
	TOTAL RESISTING=		7.6	kips	TOTAL RESISTING=		7.0	kips	
	FACTOR OF SAFETY =		1.44		FACTOR OF SAFETY=		0.85		
	Unbalanced force=		0.34	kips	Unbalanced force=		2.08	kips	

Along Bedding Wedge Analysis (13 Feet Temporary Stability)

STABILITY ANALYSIS B-B'

Seismic Coef.=		0.32							
Slice #	Phi	cohesion	density	length	angle	H1	H2	Hz	Area
1.0	20.0	225.0	125.0	19.0	30.0	0.0	13.0	23.0	149.5
Slice #	w eight	driving	normal	resisting	seismic driving	seismic normal	seismic resisting		
1.0	18.7	9.3	16.2	10.2	14.5	13.2	9.1		
	Static Analysis								
	TOTAL DRIVING=		9.3	kips					
	TOTAL RESISTING=		10.2	kips					
	FACTOR OF SAFETY =		1.09						
	Unbalanced force=		1.51	kips					

Along Bedding At Rest Pressure

AT REST PRESSURE CALCULATION

CALCULATION PARAMETERS

EARTH MATERIAL:	Tp	COHESION:	225	psf
SHEAR DIAGRAM:	TP-2@5	PHI ANGLE:	20	degrees
		DENSITY:	125	pcf

CALCULATED RESULTS

AT REST PRESSURE	83	pcf

CONCLUSIONS:

THE CALCULATED PRESSURE DUE TO AT REST CONDITIONS ARE PRESENTED IN THE TABLE.

U.S. Geological Survey - Earthquake Hazards Program

Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

Input

Edition

Dynamic: Conterminous U.S. 2014 (v4.1.

Spectral Period

Peak ground acceleration

Latitude

Decimal degrees

34.064756864273804

Time Horizon

Return period in years

475

Longitude

Decimal degrees, negative values for western longitudes

-118.25388450109651

Site Class

259 m/s (Site class D)

Hazard Curve

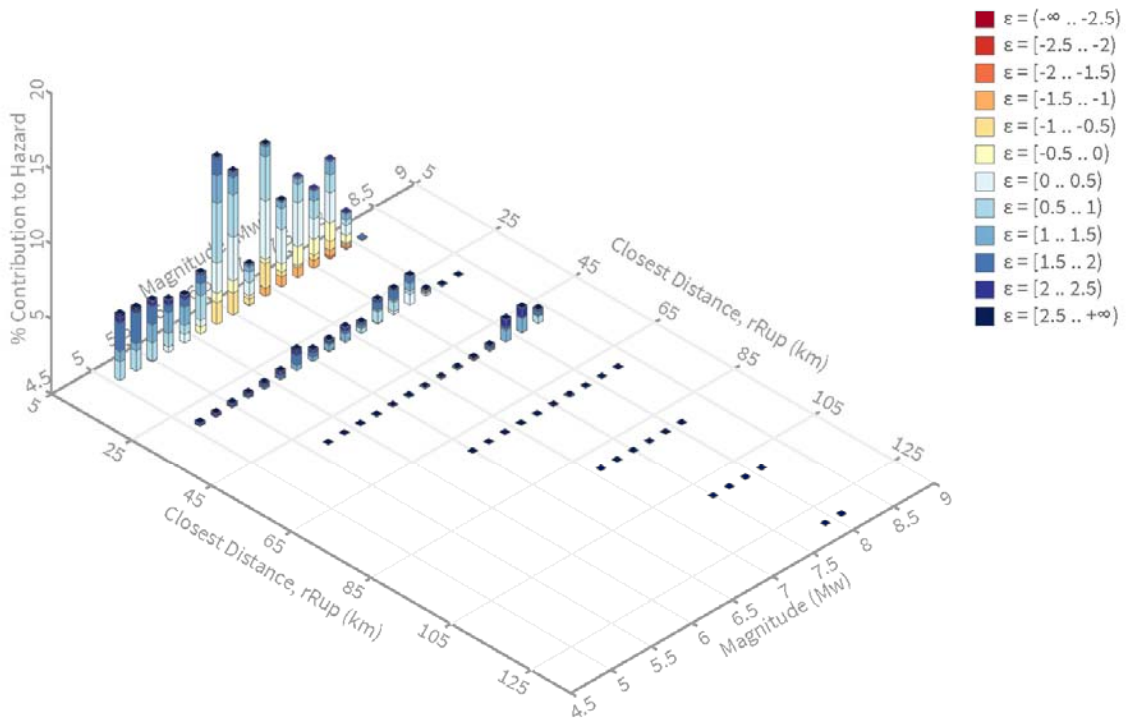
Please select “Edition”, “Location” & “Site Class” above to compute a hazard curve.

Compute Hazard Curve

Deaggregation

Component

Total



Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 475 yrs
Exceedance rate: 0.0021052632 yr^{-1}
PGA ground motion: 0.58373708 g

Recovered targets

Return period: 509.03819 yrs
Exceedance rate: 0.0019644891 yr^{-1}

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.23 %

Mean (for all sources)

r: 13.57 km
m: 6.69
ε_0: 0.74 σ

Mode (largest r-m bin)

r: 7.94 km
m: 6.34
ε_0: 0.64 σ
Contribution: 11.1 %

Mode (largest ε_0 bin)

r: 7.5 km
m: 6.34
ε_0: 0.67 σ
Contribution: 3.99 %

Discretization

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys

ε0: [-∞ .. -2.5)
ε1: [-2.5 .. -2.0)
ε2: [-2.0 .. -1.5)
ε3: [-1.5 .. -1.0)
ε4: [-1.0 .. -0.5)
ε5: [-0.5 .. 0.0)
ε6: [0.0 .. 0.5)
ε7: [0.5 .. 1.0)
ε8: [1.0 .. 1.5)
ε9: [1.5 .. 2.0)
ε10: [2.0 .. 2.5)
ε11: [2.5 .. +∞]

Deaggregation Contributors

Source Set ↳ Source	Type	r	m	ϵ_0	lon	lat	az	%
UC33brAvg_FM31	System							36.13
Elysian Park (Upper) [2]		4.79	6.87	0.07	118.239°W	34.081°N	36.43	8.45
Elysian Park (Upper) [1]		4.79	6.35	0.31	118.239°W	34.081°N	36.43	4.75
Compton [2]		14.97	7.39	0.24	118.364°W	33.847°N	202.81	2.91
Newport-Inglewood alt 1 [8]		12.42	6.68	0.87	118.377°W	34.021°N	246.95	2.57
San Andreas (Mojave S) [7]		54.22	8.05	1.60	117.992°W	34.502°N	26.24	2.03
Puente Hills [4]		5.99	7.07	0.04	118.266°W	34.056°N	230.76	1.53
Hollywood [0]		6.71	7.33	0.11	118.264°W	34.123°N	352.05	1.53
Sierra Madre [5]		18.50	7.67	0.60	118.179°W	34.219°N	22.01	1.40
Verdugo [1]		11.41	7.48	0.32	118.220°W	34.163°N	16.06	1.18
Raymond [2]		7.36	6.71	0.44	118.224°W	34.124°N	22.75	1.10
UC33brAvg_FM32	System							33.43
Elysian Park (Upper) [2]		4.79	7.03	0.02	118.239°W	34.081°N	36.43	6.72
Compton [2]		14.97	7.41	0.22	118.364°W	33.847°N	202.81	2.87
Elysian Park (Upper) [1]		4.79	7.05	-0.01	118.239°W	34.081°N	36.43	2.52
Newport-Inglewood alt 2 [8]		12.18	6.77	0.78	118.370°W	34.015°N	242.56	2.15
Puente Hills (Santa Fe Springs) [1]		13.48	7.01	0.60	118.144°W	33.926°N	146.58	2.04
San Andreas (Mojave S) [7]		54.22	8.04	1.61	117.992°W	34.502°N	26.24	2.03
Hollywood [0]		6.71	7.11	0.20	118.264°W	34.123°N	352.05	1.97
Sierra Madre [5]		18.50	7.69	0.58	118.179°W	34.219°N	22.01	1.35
Puente Hills (LA) [1]		5.20	7.16	-0.15	118.281°W	34.029°N	211.80	1.26
San Vicente [0]		5.76	6.48	0.39	118.306°W	34.066°N	271.07	1.18
UC33brAvg_FM32 (opt)	Grid							15.60
PointSourceFinite: -118.254, 34.114		7.40	5.63	0.97	118.254°W	34.114°N	0.00	1.95
PointSourceFinite: -118.254, 34.114		7.40	5.63	0.97	118.254°W	34.114°N	0.00	1.95
PointSourceFinite: -118.254, 34.141		9.35	5.74	1.12	118.254°W	34.141°N	0.00	1.93
PointSourceFinite: -118.254, 34.141		9.35	5.74	1.12	118.254°W	34.141°N	0.00	1.93
PointSourceFinite: -118.254, 34.123		8.06	5.65	1.03	118.254°W	34.123°N	0.00	1.36
PointSourceFinite: -118.254, 34.123		8.06	5.65	1.03	118.254°W	34.123°N	0.00	1.36
UC33brAvg_FM31 (opt)	Grid							14.83
PointSourceFinite: -118.254, 34.141		9.37	5.74	1.13	118.254°W	34.141°N	0.00	1.77
PointSourceFinite: -118.254, 34.141		9.37	5.74	1.13	118.254°W	34.141°N	0.00	1.77
PointSourceFinite: -118.254, 34.114		7.41	5.62	0.97	118.254°W	34.114°N	0.00	1.76
PointSourceFinite: -118.254, 34.114		7.41	5.62	0.97	118.254°W	34.114°N	0.00	1.76
PointSourceFinite: -118.254, 34.123		8.13	5.62	1.06	118.254°W	34.123°N	0.00	1.35
PointSourceFinite: -118.254, 34.123		8.13	5.62	1.06	118.254°W	34.123°N	0.00	1.35

USGS Design Maps Detailed Report

ASCE 7-10 Standard (34.06476°N, 118.25388°W)

Site Class D – "Stiff Soil", Risk Category I/II/III

Section 11.4.1 — Mapped Acceleration Parameters

Note: Ground motion values provided below are for the direction of maximum horizontal spectral response acceleration. They have been converted from corresponding geometric mean ground motions computed by the USGS by applying factors of 1.1 (to obtain S_S) and 1.3 (to obtain S_1). Maps in the 2010 ASCE-7 Standard are provided for Site Class B. Adjustments for other Site Classes are made, as needed, in Section 11.4.3.

From Figure 22-1 [1]	S_S = 2.530 g
From Figure 22-2 [2]	S_1 = 0.892 g

Section 11.4.2 — Site Class

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class D, based on the site soil properties in accordance with Chapter 20.

Table 20.3-1 Site Classification

Site Class	$\overline{v}_s$	$\overline{N}$ or $\overline{N}_{ch}$	$\overline{s}_u$
A. Hard Rock	>5,000 ft/s	N/A	N/A
B. Rock	2,500 to 5,000 ft/s	N/A	N/A
C. Very dense soil and soft rock	1,200 to 2,500 ft/s	>50	>2,000 psf
D. Stiff Soil	600 to 1,200 ft/s	15 to 50	1,000 to 2,000 psf
E. Soft clay soil	<600 ft/s	<15	<1,000 psf
	Any profile with more than 10 ft of soil having the characteristics: • Plasticity index PI > 20, • Moisture content w ≥ 40%, and • Undrained shear strength $\overline{s}_u$ < 500 psf		
F. Soils requiring site response analysis in accordance with Section 21.1	See Section 20.3.1		

For SI: 1ft/s = 0.3048 m/s 1lb/ft² = 0.0479 kN/m²

Section 11.4.3 — Site Coefficients and Risk–Targeted Maximum Considered Earthquake (MCE_R) Spectral Response Acceleration Parameters

Table 11.4–1: Site Coefficient F_a

Site Class	Mapped MCE_R Spectral Response Acceleration Parameter at Short Period				
	$S_S \le 0.25$	$S_S = 0.50$	$S_S = 0.75$	$S_S = 1.00$	$S_S \ge 1.25$
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.2	1.2	1.1	1.0	1.0
D	1.6	1.4	1.2	1.1	1.0
E	2.5	1.7	1.2	0.9	0.9
F	See Section 11.4.7 of ASCE 7				

Note: Use straight–line interpolation for intermediate values of S_S

For Site Class = D and S_S = 2.530 g, F_a = 1.000

Table 11.4–2: Site Coefficient F_v

Site Class	Mapped MCE_R Spectral Response Acceleration Parameter at 1–s Period				
	$S_1 \le 0.10$	$S_1 = 0.20$	$S_1 = 0.30$	$S_1 = 0.40$	$S_1 \ge 0.50$
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.7	1.6	1.5	1.4	1.3
D	2.4	2.0	1.8	1.6	1.5
E	3.5	3.2	2.8	2.4	2.4
F	See Section 11.4.7 of ASCE 7				

Note: Use straight–line interpolation for intermediate values of S_1

For Site Class = D and S_1 = 0.892 g, F_v = 1.500

Equation (11.4–1):	$S_{MS} = F_a S_S = 1.000 \times 2.530 = 2.530$ g
Equation (11.4–2):	$S_{M1} = F_v S_1 = 1.500 \times 0.892 = 1.338$ g

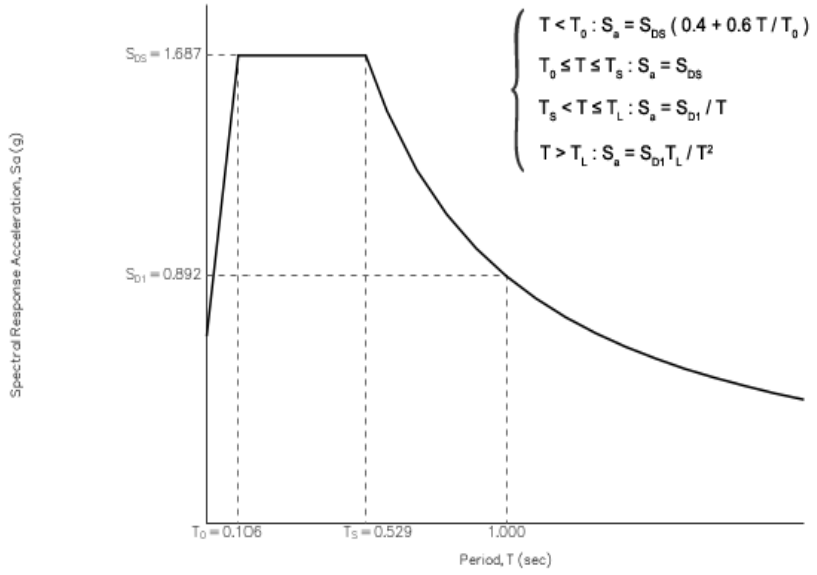
Section 11.4.4 — Design Spectral Acceleration Parameters

Equation (11.4–3):	$S_{DS} = \frac{2}{3} S_{MS} = \frac{2}{3} \times 2.530 = 1.687$ g
Equation (11.4–4):	$S_{D1} = \frac{2}{3} S_{M1} = \frac{2}{3} \times 1.338 = 0.892$ g

Section 11.4.5 — Design Response Spectrum

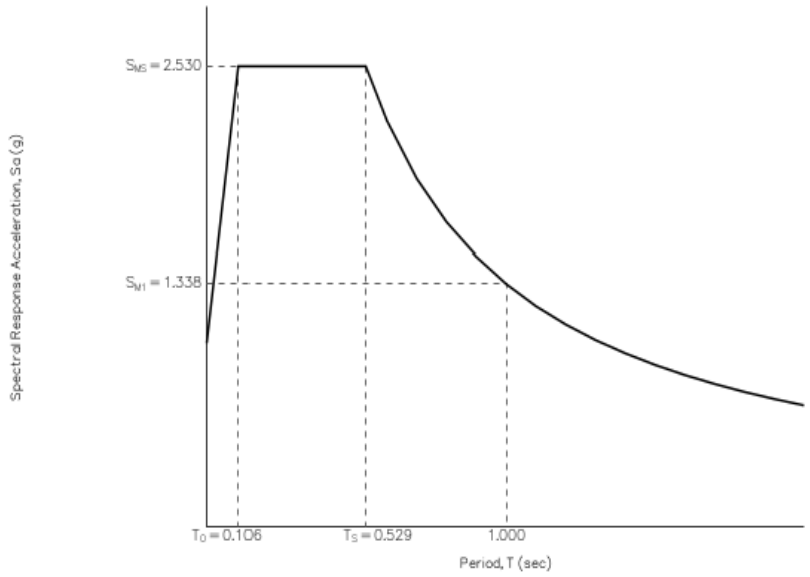
From Figure 22-12[3]	$T_L = 8$ seconds

Figure 11.4–1: Design Response Spectrum



Section 11.4.6 — Risk-Targeted Maximum Considered Earthquake (MCE_R) Response Spectrum

The MCE_R Response Spectrum is determined by multiplying the design response spectrum above by 1.5.



Section 11.8.3 — Additional Geotechnical Investigation Report Requirements for Seismic Design Categories D through F

From Figure 22-7 [4] PGA = 0.961

Equation (11.8-1): $PGA_M = F_{PGA}PGA = 1.000 \times 0.961 = 0.961$ g

Table 11.8-1: Site Coefficient F_{PGA}

Site Class	Mapped MCE Geometric Mean Peak Ground Acceleration, PGA				
	PGA ≤ 0.10	PGA = 0.20	PGA = 0.30	PGA = 0.40	PGA ≥ 0.50
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.2	1.2	1.1	1.0	1.0
D	1.6	1.4	1.2	1.1	1.0
E	2.5	1.7	1.2	0.9	0.9
F	See Section 11.4.7 of ASCE 7				

Note: Use straight-line interpolation for intermediate values of PGA

For Site Class = D and PGA = 0.961 g, F_{PGA} = 1.000

Section 21.2.1.1 — Method 1 (from Chapter 21 – Site-Specific Ground Motion Procedures for Seismic Design)

From Figure 22-17 [5] C_{RS} = 0.942

From Figure 22-18 [6] C_{R1} = 0.954

Section 11.6 — Seismic Design Category

Table 11.6-1 Seismic Design Category Based on Short Period Response Acceleration Parameter

VALUE OF S_{DS}	RISK CATEGORY		
	I or II	III	IV
$S_{DS} < 0.167g$	A	A	A
$0.167g \le S_{DS} < 0.33g$	B	B	C
$0.33g \le S_{DS} < 0.50g$	C	C	D
$0.50g \le S_{DS}$	D	D	D

For Risk Category = I and S_{DS} = 1.687 g, Seismic Design Category = D

Table 11.6-2 Seismic Design Category Based on 1-S Period Response Acceleration Parameter

VALUE OF S_{D1}	RISK CATEGORY		
	I or II	III	IV
$S_{D1} < 0.067g$	A	A	A
$0.067g \le S_{D1} < 0.133g$	B	B	C
$0.133g \le S_{D1} < 0.20g$	C	C	D
$0.20g \le S_{D1}$	D	D	D

For Risk Category = I and S_{D1} = 0.892 g, Seismic Design Category = D

Note: When S_1 is greater than or equal to 0.75g, the Seismic Design Category is **E** for buildings in Risk Categories I, II, and III, and **F** for those in Risk Category IV, irrespective of the above.

Seismic Design Category ≡ "the more severe design category in accordance with Table 11.6-1 or 11.6-2" = E

Note: See Section 11.6 for alternative approaches to calculating Seismic Design Category.

References

1. *Figure 22-1*: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-1.pdf
2. *Figure 22-2*: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-2.pdf
3. *Figure 22-12*: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-12.pdf
4. *Figure 22-7*: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-7.pdf
5. *Figure 22-17*: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-17.pdf
6. *Figure 22-18*: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-18.pdf

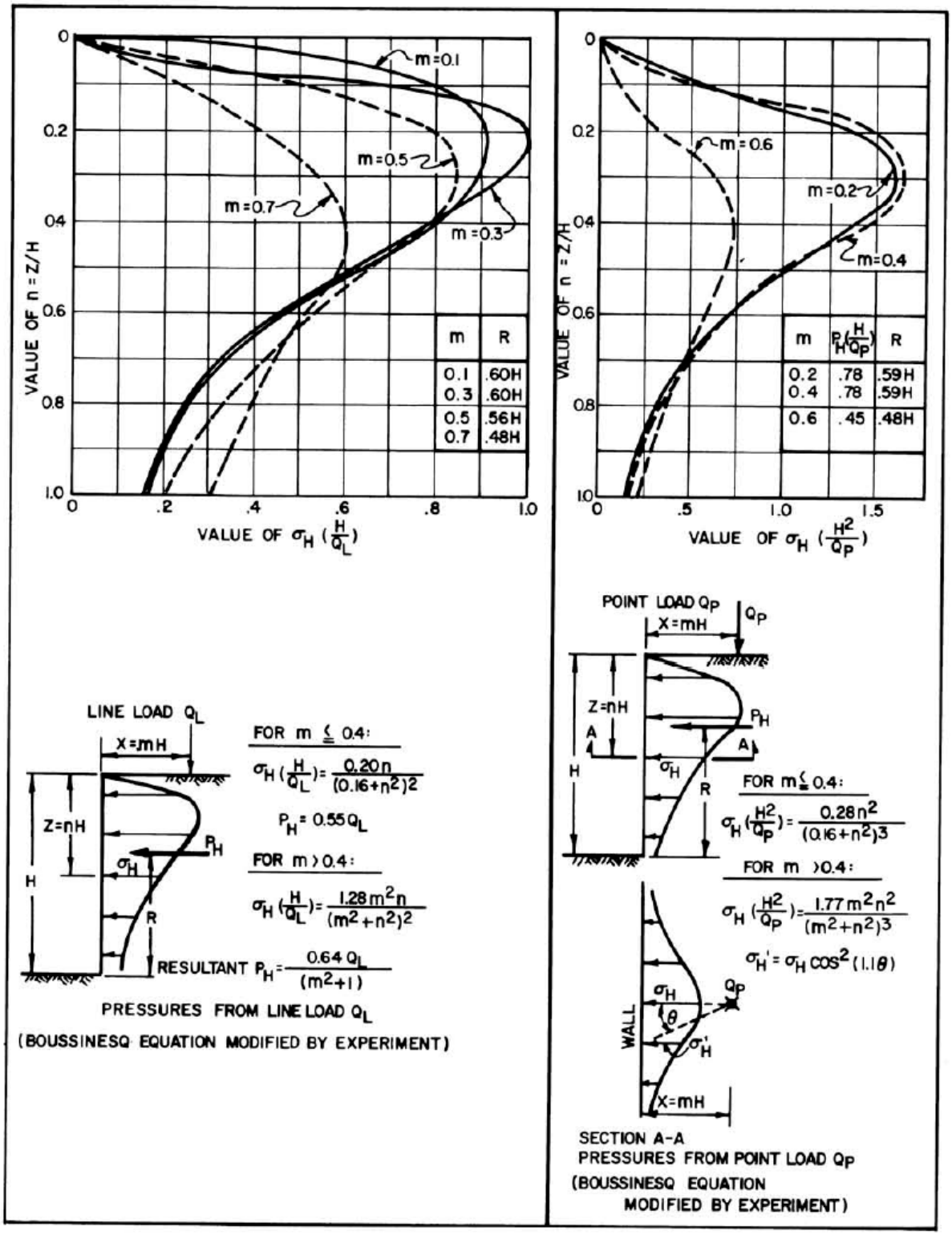


FIGURE 11
Horizontal Pressures on Rigid Wall from Surface Load

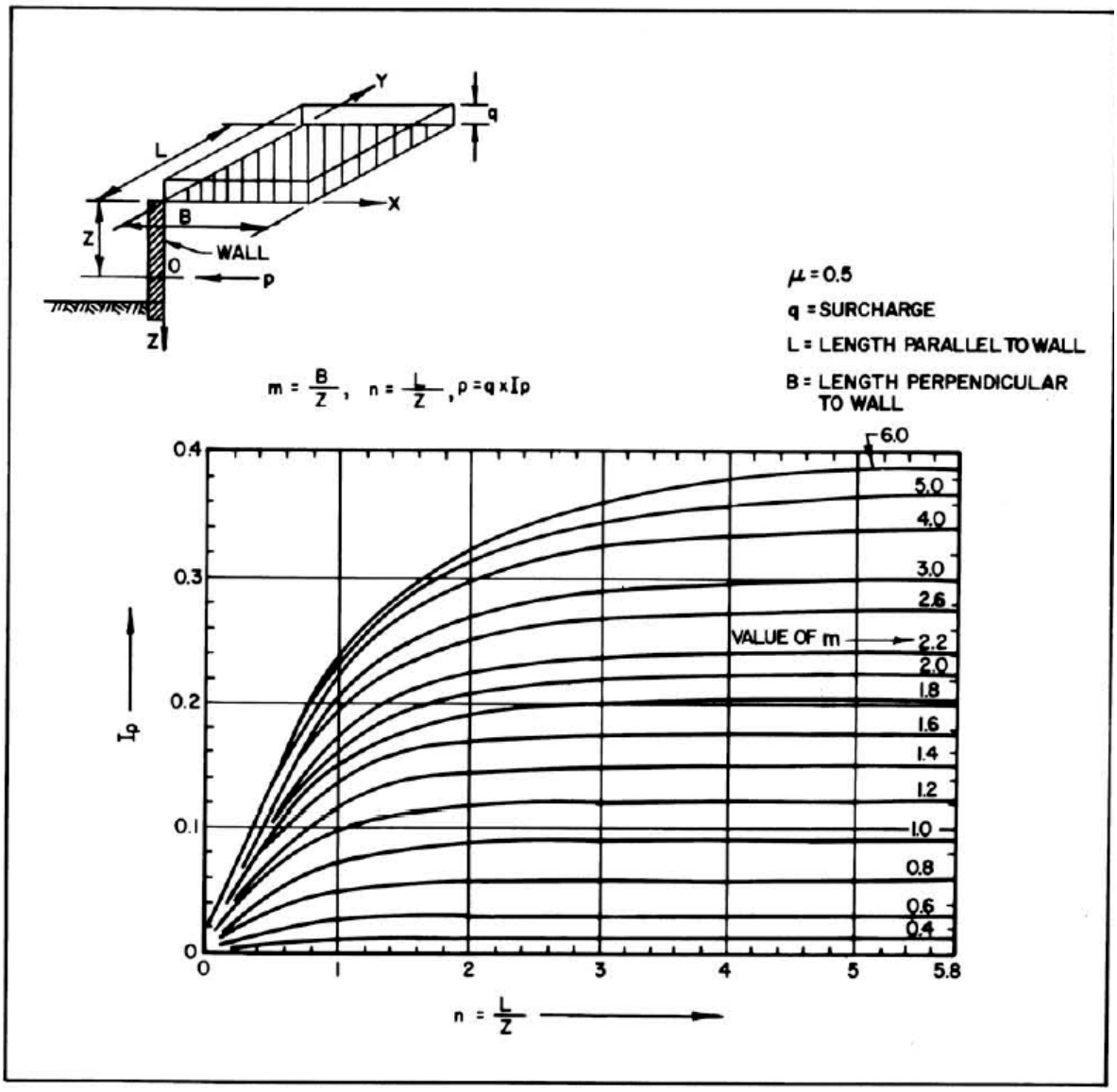


FIGURE 12
Lateral Pressure on an Unyielding Wall due to
Uniform Rectangular Surface Load

APPENDIX IV

REFERENCES

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10. Poulos, H. G., and Davis, E. H., Pile Foundation Analysis and Design (Wiley & Sons, New York: 1980).
11. Taylor, Donald W., Fundamentals of Soil Mechanics (Wiley & Sons, New York: 1948).
12. Terzaghi, Karl, Peck, Ralph B., Mesri, Gholamreza, Soil Mechanics in Engineering Practice (Wiley & Sons, New York: 1996).

GeoConcepts INC
Geology - Geotechnical Engineering

October 1, 2018 Project 5462

Decro Corporation
Attn: Whitney Weller
400 Corporate Point, #300
Culver City, CA 90230

Subject: **REPORT CLARIFICATIONS**
418, 426, & 430 Firmin Street
Los Angeles, CA

References:

1) Soils Report Approval Letter by the City of Los Angeles, Department of Building and Safety, dated July 6, 2018. Reference No. 2.

2) Preliminary Geologic and Geotechnical Engineering report by GeoConcepts, Inc. covering the subject site, dated May 8, 2018.

Dear Mr. Weller:

Pursuant to the request of Lainie Herrera, EcoTierra Consulting, presented herein are report clarifications.

The properties essentially consist of near-level pads with ascending slopes to the south and descending slopes to the north and east. The general topography across the three sites is sloping to the north at 4:1 (H:V) or less consistent with the adjacent street. Maximum topographic relief across the three properties is about 20 feet. Some slopes are partially supported by retaining walls. Details of the topography are depicted on the Geologic Map within Reference No. 2 above.

Based upon the is relatively gentle topography of the sites and the dense nature of the bedrock landsliding will not pose any significant hazard to the proposed development.

Based upon the dense nature of bedrock underlying the sites, liquefaction surface manifestations, lateral spreads and seismically induced settlements will not pose any significant hazard to the proposed development.

draft

Should you have any questions regarding this report, please do not hesitate to contact the undersigned at your convenience.

Respectfully submitted,
GeoConcepts, Inc.





Scott J. Walter
Project Engineer
GE 2476

Mark A. Barrett
Project Geologist
CEG 2088

MAB/SJW: -5462-2

Distribution: (3) Addressee

draft

REPORT
SUBSURFACE ENVIRONMENTAL INVESTIGATION

418, 426, AND 430 FIRMIN STREET
LOS ANGELES, CALIFORNIA 90026

PROJECT NO. 18026

Prepared for:

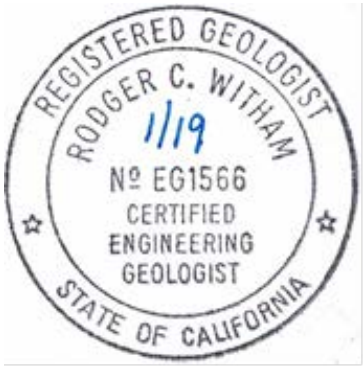
Mr. Ted Handel
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Prepared by:

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Oakland, California 94606
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April 30, 2018

REPORT
SUBSURFACE ENVIRONMENTAL INVESTIGATION
418, 426, and 430 FIRMIN STREET
LOS ANGELES, CALIFORNIA 90026



Rodger C. Witham, P.G., C.E.G.
Senior Geologist

Nik Lahiri
Principal

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REPORT
SUBSURFACE ENVIRONMENTAL INVESTIGATION REPORT
418, 426, and 430 FIRMIN STREET
LOS ANGELES, CALIFORNIA 90026

1.0 INTRODUCTION

At the request of Mr. Ted Handel of Decro Corporation, Essel Environmental Engineering & Consulting (Essel) performed a subsurface environmental investigation at 418, 426, and 430 Firmin Street in Los Angeles, California. The purpose of the investigation was to evaluate potential contaminant concentrations in the soil and soil-vapor in the vicinities of three historic oil wells presumed to have been located on the site. The scope of work, as described in Essel's March 19, 2018 work plan (Essel, 2018), included advancing four small-diameter borings at the site, collecting soil samples for laboratory analysis from three of the borings, installing soil-vapor probes in the four borings, and collecting soil-vapor samples for laboratory analysis from the soil-vapor probes.

1.1 Site Location and Description

The irregular-shaped site is located on the southeast side of Firmin Street, approximately 106 feet southwest of West Temple Street. The property encompasses approximately 0.4-acre and consists of assessor's parcel numbers 5160-022-006, 5160-022-007, and 5160-022-012, which correspond to the respective addresses of 430, 426, and 418 Firmin Street. The southwestern (418 Firmin Street) and northeastern (430 Firmin Street) parcels are occupied by single-family dwellings and detached garages. The residential structures total approximately 2,820 square feet in area. The remaining portions of these two parcels consist of concrete paved driveways and walkways and landscaped areas. The central parcel (426 Firmin Street) is a vegetated vacant lot. Adjacent properties are occupied by single- and multi-family residential structures. The ground surface slopes downward from southwest to northeast with surface elevations ranging from 436 to 419 feet above mean sea level. Plate 1 shows the location of the site relative to surrounding urban features and Plate 2 shows site features.

1.2 Previous Environmental Work

Phase I Environmental Site Assessment

EFI Global, Inc. (EFI Global, 2017a) performed a Phase I Environmental Site Assessment (ESA) of the site in May and June 2017. Available historical records presented in the Phase I ESA show that single-family residences have occupied the southwestern parcel at 418 Firmin Street from sometime before 1890 to the present time. The central parcel, at 426 Firmin Street, contained small outbuildings in 1890 and 1894 and a small residence size structure (labeled vacant) in 1906. This parcel appears to have been vacant from at least 1927 to mid-1947, was occupied by a single-family residence from mid-1947 until 1983, and has been vacant land since 1983. The northeastern parcel at 430 Firmin Street, was occupied by small outbuildings associated with a

nearby residential dwelling in 1890 and has been occupied by a single-family dwelling since 1894. EFI Global (2017a) identified two historical oil wells at the site, based on review of California Division of Oil, Gas & Geothermal Resources (DOGGR) maps. Online DOGGR records show one oil well, identified as H. Rogalske well 1-1, was discovered beneath a driveway at 418 Firmin Street and this well was plugged and abandoned in May 1941. A second oil well, identified as H. Rogalske well 2A, appears to have been located on the 426 Firmin Street parcel. Plate 2 shows the approximate locations of the two wells.

EFI Global did not find evidence of previous or current hazardous materials storage or use at the site, indicated that the site was not listed on any regulatory agency environmental databases researched, and indicated that applicable regulatory agencies contacted did not have environmental records pertaining to the site. EFI Global indicated that no adjacent or nearby properties posed a significant threat to the site as a result of releases of hazardous substances. The site was also identified to be within a methane zone as designated on a map prepared by the Los Angeles Department of Public Works and EFI Global indicated that testing for the presence of methane and installation of methane mitigation systems may be necessary before new construction takes place. EFI Global concluded that the historic presence of oil wells and the typical exploration and production activities associated with the wells represented a recognized environmental condition at the site and recommended a Phase II ESA be performed.

Phase II Environmental Site Assessment

EFI Global (2017b) performed a Phase II ESA at the site in October 2017. The scope of work included conducting a geophysical survey and advancing six borings to collect soil samples for laboratory analysis. In the report, EFI Global indicated that the site and vicinity were historically used for oil production activities and that DOGGR maps showed that several historic oil wells were on the site and on adjacent properties. These wells were located in the Los Angeles City oil field. The purpose of the investigation was to evaluate whether the oil exploration and production activities had significantly impacted the site.

The geophysical survey was performed to attempt to identify the locations of the historic oil wells. A ground penetrating radar scan was used over much of the property and electromagnetic equipment was used to scan the central 426 Firmin Street parcel. The results of the survey showed an anomaly (low conductivity) at a depth of 4 feet below the ground surface at the southern corner of the 426 Firmin Street parcel, which is in the vicinity of a DOGGR well identified as H. Rogalske well 3. No other anomalies were identified on the property; however, EFI Global cautioned that the presence of structures, reinforced concrete, and metal fences on the 418 and 430 Firmin Street parcels might interfere with the geophysical readings to mask potential anomalies. Plate 2 shows the approximate location of H. Rogalske well 3 based on the geophysical anomaly data. Plate 2 also shows the approximate locations of H. Rogalske wells 1-1 and 2A identified during the Phase I ESA, and off-site historic oil wells H.H. Harrison well 1 and Charles V. Hall well 8 located adjacent to the southeastern and northwestern sides of the site, respectively. Except for H. Rogalske well 1-1, no online records are available for the wells and DOGGR lists the well statuses as buried-idle.

EFI Global advanced six borings (B1 through B6) at the site to depths of 15 to 25 feet below the ground surface to evaluate the potential impact from historic oil field operations. The borings were advanced at locations assumed to be in proximity to the on-site and off-site historic oil wells (see Plate 2). Field evidence of petroleum contaminants, including detectable photoionization detector (PID) readings, noticeable petroleum odors, and gray discolored soil was noted in boring B2 between 2 and 25 feet below grade, boring B3 between 10 and 20 feet below grade, and

boring B4 between 10 and 15 feet below the ground surface. These borings were advanced along the southeastern property line of the site. No field evidence of petroleum hydrocarbon impact was noted in borings B-1, B-5, and B-6, which were advanced in the central and northwestern areas of the site.

Eight soil samples variously collected from the borings at depths of 2, 5, 10, 15, 20 and 25 feet below the ground surface were analyzed for total petroleum hydrocarbons carbon chain and the 17 metals and metalloids identified as inorganic persistent and bioaccumulative toxic substances in Title 22 of the California Code of Regulations (i.e., Title 22 metals). One soil sample, collected at a depth of 2 feet below the ground surface in boring B2, was also analyzed for volatile organic compounds (VOCs); this sample contained the highest field PID reading.

Laboratory analytical results indicated total petroleum hydrocarbons in the gasoline, diesel, and motor oil ranges were detected in all soil samples, except the soil sample collected at 5 feet below the ground surface in northern boring B6. Detected concentrations ranged from 14.0 to 11,500 milligrams per kilogram (mg/kg). EFI Global compared these concentrations to Los Angeles Regional Water Quality Control Board maximum soil screening levels, which were developed to assess the potential for migration of contaminants in soil to the ground water. A number of the total petroleum hydrocarbon concentrations were greater than the corresponding maximum soil screening levels, based on an assumed depth to ground water of 30 to 40 feet below the ground surface. Laboratory analytical results found several petroleum-hydrocarbon-related VOCs in the 2-foot-depth sample collected from boring B2 with benzene and ethylbenzene reportedly detected at concentrations greater than corresponding screening levels for direct exposure to soil. Table 1 presents the laboratory analytical results for total petroleum hydrocarbons and VOCs in soil samples collected by EFI Global. In this table, Essel includes the gasoline results reported by EFI Global in a diesel column, because the compounds included in the laboratory analysis fall predominantly within the diesel range. The table also shows that the above-mentioned benzene and ethylbenzene concentrations detected in boring B2 are less than direct exposure screening levels.

The results of analyses of soil samples for the Title 22 metals showed that, except for arsenic and chromium, none of the metals/metalloids were found at concentrations greater than California Department of Toxic Substances Control (DTSC) or United States Environmental Protection Agency (USEPA) screening levels for direct exposure to soil. Arsenic concentrations were compared to a DTSC-developed naturally occurring (i.e., background) concentration for southern California of 12 mg/kg. Only one soil sample, collected at a depth of 20 feet in boring B3, contained arsenic at a concentration slightly greater than this background level. Chromium concentrations were compared to and found to be well below a background concentration developed by the U.S. Air Force. Table 2 presents the laboratory analytical results for the Title 22 metals in soil samples collected by EFI Global.

EFI Global concluded that the Title 22 metals (including arsenic and chromium) detected in the soil samples were at concentrations that were not of concern with respect to risk to human health; that a potential threat to ground water from the concentrations of total petroleum hydrocarbons in the soil samples could not be ruled out; and that potential human health risk from exposure to the benzene and ethylbenzene in the shallow soil could not be ruled out. EFI Global recommended that the oil well identified during the investigation and other oil wells identified during future site development be abandoned according to state and local guidelines; that additional soil sampling be performed to further characterize the detected petroleum hydrocarbons and VOCs; that ground-water sampling be performed to assess whether shallow ground water has been impacted; and that soil vapor sampling be performed to assess potential vapor intrusion risk.

1.3 Planned Development

Essel understands that Decro Corporation plans to construct a seven-story residential building, the footprint of which will occupy nearly the entire site. The structure will include a lower partly underground parking level, a second floor aboveground level that will include parking, offices, and some residential units, and five floors (third through seventh) that will consist of residential units. An 8- to 12-foot-wide perimeter around the building will be landscaped. Preliminary architectural plans (Dahlin Group, 2018) indicate the lower parking level may be as much as 12 feet below the ground surface in the southwestern portion of the site. GeoConcepts, Inc. (2017) indicates vertical excavations may be as much as 20 feet below grade.

2.0 FIELD AND LABORATORY WORK

Field work for this investigation included advancing three borings (EE-1, EE-2, and EE-3) to sample soil and soil vapor and advancing one boring (EESV-1) to sample soil vapor. Laboratory work included analyzing the soil samples for total petroleum hydrocarbons and VOCs and analyzing soil vapor samples for gasoline petroleum hydrocarbons, VOCs, and methane. The following sections provide descriptions of the field and laboratory work performed.

2.1 Drilling Permit, Utility Clearance, and Health and Safety Plan

Essel submitted an Application for Well Permit and a work plan (Essel, 2018) to the County of Los Angeles Department of Public Health, Drinking Water Program (Drinking Water Program). The Drinking Water Program approved the permit (No. SR0138386) on March 29, 2018. A copy of the approved permit is included in Appendix A. Essel marked the proposed boring locations and notified Underground Service Alert of Southern California on March 30, 2018 of the planned drilling activities. This notification occurred more than 48 hours before drilling began.

Essel subcontracted with Ground Penetrating Radar Systems, Inc. (GPRS) to clear boring locations with respect to subsurface utilities. On March 21, 2018, GPRS used electromagnetic and ground-penetrating radar equipment to identify and mark subsurface utilities or other obstructions at the proposed boring locations.

Essel prepared a site-specific Health and Safety Plan (HSP) for the project and the HSP was available at the site during field activities. Essel's project manager conducted a Health and Safety tailgate meeting before beginning field work to brief subcontractor personnel regarding potential on-site hazards that might be encountered during field activities.

2.2 Locations of Borings

Borings were advanced at four locations to provide subsurface soil and soil vapor information near the suspected historic oil wells. Boring locations are described below and depicted on Plate 2.

- Boring EE-1 was advanced near the suspected location of historic oil well H. Rogalske 2A at the western corner of the 426 Firmin Street property.
- Boring EE-2 was advanced at a located approximately 15 feet northwest of historic oil well H. Rogalske 3, which, based on EFI Global's geophysical survey results, is suspected to have been near the southeastern edge of the 426 Firmin Street property.
- Boring EE-3 was advanced at a location approximately 7 feet north of historic oil well H. Rogalske 1-1 suspected to be near the southern corner of the 418 Firmin Street property.

- The boring for soil vapor probe EESV-1 was advanced at the southern corner of the 426 Firmin Street property near historic oil well H. Rogalske 3 and EFI Global boring B4.

2.3 Advancing Borings and Sampling Soil

Essel subcontracted with BC^2 Environmental of Orange, California (C-57 license number 969758) to advance borings and construct soil vapor probes. Work was performed on April 2, 2018. BC^2 Environmental used a Geoprobe 6600, truck-mounted, direct-push drill rig to advance borings EE-1, EE-2, and EE-3 and the boring for soil vapor probe EESV-1. Borings EE-1, EE-2, and EE-3 were advanced to total depths of 24, 28, and 24 feet below the ground surface, respectively, using a 2½-inch-outside-diameter, hollow steel rod. In the same manner, the boring for soil vapor probe EESV-1 was advanced to a total depth of 20 feet below grade.

Continuous soil cores were collected from the borings using the hollow steel rod fitted with a 1¼-inch-outside-diameter by 4-foot-long, clear plastic (acetate) sleeve. The acetate sleeve was removed from the core barrel after each sampling interval and replaced with a clean acetate sleeve for the next lower sampling interval. Soil cores contained in the acetate sleeves were used to field screen for contaminants, identify and describe sediments, and select samples for laboratory analysis. Soil cores retrieved from the borings were screened for volatile organic compound vapor concentrations using a photoionization detector (PID). Samples of the soil were placed and sealed in zip-lock bags for a period of approximately 15 minutes after which the bags were punctured with the tip of the PID to measure concentrations of organic vapors. The PID readings were recorded on field boring logs. Field screening also included visual observation of the soil for discoloration and noting any odors in the soil.

Soil encountered during drilling was described and classified using the Unified Soil Classification System (USCS). Logs of Borings EE-1 through EE-3 and log of boring for soil vapor probe EESV-1 present descriptions of the sediments encountered in the boreholes, PID readings, and the depth intervals at which soil samples were collected for laboratory analysis. The USCS and boring logs are included in Appendix B (Plates B-1 through B-9).

Essel retained two soil samples from each boring for laboratory analysis. Soil samples were collected from the borings at depths of 7 and 10 feet and 18½ to 19½ feet below the ground surface. Samples for VOC analyses were collected using a syringe to obtain 5-gram plugs of soil, which were placed into clean 40-milliliter glass vials containing sodium bisulfate (two vials) and methanol (one vial) as preservatives. In addition, an approximately 6-inch-long section of the acetate sleeve was cut at the selected sample depths for analysis for total petroleum hydrocarbons. The ends of each sample sleeve were covered with Teflon sheets and plastic caps. Each sample was labeled with a unique identification number and placed on ice in a cooler pending delivery to the analytical laboratory. Essel prepared a Chain-of-Custody form for the soil samples and this form accompanied the samples to the laboratory. A copy of the Chain-of-Custody form is included in Appendix C.

2.4 Soil Vapor Probe Installation and Sampling

Two nested soil vapor probes were installed in borings EE-1, EE-2, and the boring for vapor probe EESV-1 and one vapor probe was installed in boring EE-3. The presence of liquid petroleum product prevented installation of a deeper vapor probe in boring EE-3. Each vapor probe consisted of a stainless-steel filter-screen tip that was inserted into ¼-inch-diameter Nylaflow tubing. Vapor probe tips were placed in the boreholes at depths of 7, 10, and 20 feet below the ground surface. Probe construction included placing hydrated bentonite from the borings' total

depths to 1 foot below the depth of the deeper probe tip, suspending the probe tip 1 foot above the bentonite, and placing 2 feet of sand below and above the probe tip. A lift of dry bentonite followed by lifts of hydrated bentonite were placed above the sand to 1 foot below the depth of the shallower probe tip. The shallower probe tip was suspended 1 foot above the bentonite and 2 feet of sand were placed below and above the probe tip, followed by a lift of dry bentonite and lifts of hydrated bentonite to the ground surface. Each Nylaflow tubing extended from the probe tip to approximately 2 feet above the ground surface. The top end of the tubing was capped to prevent atmospheric air from entering the probe hole. The vapor probes were secured overnight to allow subsurface conditions to equilibrate and the hydrated bentonite seal to set. Plates B-2 through B-9 in Appendix B present construction diagrams for soil vapor probes in EE-1, EE-2, EE-3, and EESV-1.

Soil vapor sampling was performed on April 3, 2018. Each vapor probe purging and sampling assembly consisted of a 1-liter purging Summa canister, a 1-liter sampling Summa canister; and a dedicated manifold containing a vacuum gauge, a flow controller, moisture filter, and valve. Manifolds were connected to the soil vapor probes with Swagelok fittings and ferrules. Summa canisters had been evacuated by the laboratory to a negative pressure (vacuum) of approximately 30 inches of mercury. Purge Summa canisters were batch certified clean by the laboratory and sampling Summa canisters were individually certified clean by the laboratory. Before sampling, Essel performed a shut-in test of the aboveground manifold assemblies to check for potential leaks. The shut-in tests were performed for a period slightly longer than 1 minute and no loss of vacuum was observed in the sampling assemblies. Following the shut-in tests, each vapor well was purged of approximately 1,000 milliliters of air (more than one vapor probe volume) using the 1-liter purging Summa canister. Purging was performed at a controlled flow rate of 150 milliliters per minute.

After purging, the valve on the manifold was closed, the purge canister was removed, and the sampling canister was connected to the manifold Strips of cloth moistened with isopropyl alcohol (2-propanol) were placed around fittings of the sampling assembly and at the ground surface near each vapor probe as a leak check. Soil-vapor samples were collected at a controlled flow rate of approximately 150 milliliters per minute. Sampling was completed when the vacuum gauges indicated that the negative pressure in the canister was at from 2 to 4 5 inches of mercury.

At the completion of sampling, the valves on the sampling canisters were closed, the manifold assemblies were disconnected, and the purge and sample canisters were packaged in boxes. Essel prepared a Chain-of-Custody form for the vapor samples and this form accompanied the samples to the laboratory. A copy of the Chain-of-Custody form is included in Appendix D.

2.5 Backfill of Borings and Investigative Derived Waste

The four borings were abandoned on April 3, 2018 at the completion of vapor sampling. BC^2 Environmental removed the Nylaflow tubing, drilled out the four borings to the total depths, and backfilled the borings with neat cement slurry to a few inches below the ground surface. The tops of the boreholes were finished with soil or concrete to match the existing surface grade.

Drill cuttings generated during borehole abandonment were placed in a 55-gallon drum, which was sealed and left at the site. Disposition of the waste is the responsibility of the client.

2.6 Laboratory Analyses

Soil and soil-vapor samples were delivered to SunStar Laboratories, Inc. (SunStar [Certificate No. 2250]) in Lake Forest, California for analysis. SunStar analyzed six soil samples for gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MORO) using United States Environmental Protection Agency (USEPA) Method 8015B and for VOCs using USEPA Method 8260B.

SunStar analyzed seven soil-vapor samples for GRO using USEPA Methods TO-3/TO-14m, VOCs using USEPA Method TO-14, and methane using USEPA Method 8015M. The VOCs were analyzed by TO-14 rather than the request TO-15 analytical method because of the elevated concentrations of some target compounds.

3.0 RESULTS OF INVESTIGATION

3.1 Geology and Ground Water

Sediments encountered in the four borings to the total depth explored of 28 feet below the ground surface were observed to be silty clay, which varied in color from brown to light gray, dark gray, and olive gray. EFI Global (2017b) reported encountering primarily silt (clayey silt, silt, and sandy silt) in borings B1 through B6 advanced at the site in October 2017. Silty clay was encountered between the ground surface and approximately 4 feet below grade in boring B2 located at the southern corner of the 418 Firmin Street property and silty sand was encountered at 10 and 15 feet below the ground surface in boring B3 advanced at the southeastern edge of the 426 Firmin Street property. EFI Global reported hard drilling ("rig chatter") at depths of 14 to 18 feet below the ground surface in borings B3, B4, and B6 and refusal at depths of 15 to 25 feet below grade in borings B2, B3, and B6. Hard drilling was encountered in Essel boring EE-2 at a depth of 26 feet below the ground surface.

GeoConcepts, Inc. (2017) performed a geologic and geotechnical engineering investigation at the site in November 2017, which involved excavating 14 test pits at the site and drilling a boring on the 426 Firmin Street property to a depth of 40 feet below the ground surface. Sediments encountered in the test pits were described as artificial fill (silty clay with sand; clayey silt with sand; sand) from the ground surface to a maximum depth of 2½ feet below the ground surface; native soil (silty clay), which was generally observed at depths as shallow as 1 foot to as deep as 6½ feet below grade; and bedrock (sandstone and shale), which was encountered as shallow as 2½ feet below the ground surface in test pits to the maximum 40 foot-depth explored in the boring. GeoConcepts, Inc. identified the bedrock underlying the site to be the Miocene-age Puente Topanga Formation, which includes beds of shale, siltstone, and sandstone.

Ground water was not encountered in borings advanced by Essel (maximum of 28 feet below the ground surface), EFI Global (maximum of 25 feet below the ground surface), or GeoConcepts, Inc. (maximum 40 feet below the ground surface).

3.2 Field Evidence of Contaminants

Field evidence of petroleum hydrocarbons included relatively elevated organic vapor readings, noticeable petroleum odor, free petroleum product, and oily sludge and sediments. No odor and essentially no organic vapors were detected in soil from boring EE-1 located near the western corner of the 426 Firmin Street property. Relatively higher concentrations (122 to 370 parts per million by volume [ppmv]) of organic vapors were detected in boring EE-2 between depths of 18

and 26 feet below the ground surface and in nearby soil vapor probe EESV-1 at depths of 7 to 12 feet (21 to 90 ppmv) and 19 to 20 feet (165 ppmv) below grade. These two borings were advanced in the southeastern portion of the 426 Firmin Street property. At boring EE-3, located at the southern corner of the 418 Firmin Street property, wood and plastic were encountered at 3 feet below grade, a void appeared to be present between 3 and 8 feet below grade, and oil, oily sludge, and oil-saturated soil were encountered between 8 and 15 feet below the ground surface. The logs of borings in Appendix B show the distribution of PID readings in the four borings and notes on the wood, plastic, oil, and oily sludge and soil encountered in boring EE-3.

EFI Global (2017b) reported evidence of petroleum contamination as elevated PID readings, petroleum odors, and gray discolored soil. In boring B2, advanced along the southeastern edge of the 426 Firmin Street property, evidence of contaminants was noted the entire length of the boring (ground surface to 25 feet). In borings B3 and B4, located in the southern corners of the 418 and 426 Firmin Street properties, respectively, evidence of petroleum contaminants was noted at the depth intervals of 10 to 20 feet (B3) and 10 to 15 feet (B4) below the ground surface. No significant evidence of petroleum hydrocarbon contaminants was noted in EFI Global borings B1, B5, and B6, which were advanced in the central area of the 426 Firmin Street property and on the northern 430 Firmin Street property.

3.3 Laboratory Analytical Results

3.3.1 Soil

Essel submitted two soil samples from borings EE-1 through EE-3 for analysis for petroleum hydrocarbons and VOCs and following is a summary of the laboratory results.

- **Boring EE-1 (western corner of 426 Firmin Street)** – soil samples from 7 and 18½ feet below the ground surface were analyzed. A low concentration of DRO was detected in the 7-foot-depth sample. No GRO or MORO were detected in this sample and no GRO, DRO, or MORO were detected in the 18½-foot-depth sample from the boring. In addition, no VOCs were detected in either sample.
- **Boring EE-2 (southeastern portion of 426 Firmin Street)** – soil samples from 7 and 19½ feet below the ground surface were analyzed. No GRO, DRO, MORO, or VOCs were detected in the shallow soil sample and no GRO or VOCs were detected in the deeper soil sample. Moderate concentrations of 330 mg/kg DRO and 260 mg/kg MORO were detected in the sample from 19½ feet below the ground surface.
- **Boring EE-3 (southern corner of 418 Firmin Street)** – soil samples from 10 and 19 feet below the ground surface were analyzed. Low concentrations of 5.5 and 5.3 mg/kg GRO were detected in the two samples. Concentrations of DRO were 1,300 and 900 mg/kg in the shallower and deeper soil samples, respectively and concentrations of MORO were 870 and 1,900 mg/kg in the two respective samples. Very low concentrations of benzene, ethylbenzene and isopropyl benzene were detected in one or both samples and no other VOCs were detected.

The detected petroleum hydrocarbon and VOC concentrations were compared to available human-health risk-based screening levels. The DTSC and USEPA do not have screening levels corresponding to GRO, DRO, or MORO; however, the San Francisco Bay Regional Water Quality Control Board (2016) has developed environmental screening levels (ESLs) for health risk from direct exposure to the three ranges of petroleum hydrocarbons and for nuisance odors for GRO and DRO. The applicable direct-exposure ESLs are 740 mg/kg for GRO, 230 mg/kg for DRO, and 11,000 mg/kg for MORO. Applicable nuisance odors ESLs are 100 mg/kg for GRO

and 500 mg/kg for DRO. No nuisance odors ESL is available for MORO. Concentrations of DRO in soil samples from borings EE-2 (19½-foot depth) and EE-3 (10- and 19-foot depths) are greater than the corresponding ESLs for direct exposure and nuisance odors. Concentrations of GRO and MORO detected in soil samples are well below the corresponding ESLs. Table 1 presents the laboratory analytical results for petroleum hydrocarbons and VOCs in the six soil samples and the soil samples analyzed by EFI Global. Appendix C contains the laboratory report of analysis for the soil samples from borings EE-1 through EE-3.

3.3.2 Soil Vapor

Soil vapor samples were collected at two depths in the soil vapor probes installed in borings EE-1, EE-2, and EESV-1 and at one depth in the vapor probe installed in boring EE-3. As described previously, the presence of liquid petroleum product in boring EE-3 prevented installation of a vapor probe below the 7-foot-depth. The seven soil vapor samples collected were analyzed for GRO, VOCs, and methane. The results of laboratory analyses showed elevated concentrations of the leak-check tracer gas isopropyl alcohol (2-propanol) in both vapor samples from EE-1 and the 20-foot-depth vapor samples from EE-2 and EESV-1 indicating leakage in the sampling train and potential dilution of the detected compounds. Isopropyl alcohol was detected at a relatively low concentration in the shallow vapor sample from EE-2 and was not detected in the vapor sample from EE-3 and the shallow vapor sample from EESV-1, indicating little and no leakage during sampling these vapor probes and representative concentrations of contaminants in the soil vapor.

The presence of high concentrations of one or more compounds in samples requires the samples be diluted before analysis, which results in higher reporting limits (RLs). The reporting limit is the lowest concentration at which a compound is detected with a 100 percent confidence in the concentration and target compounds at concentrations below the RL would be reported as non-detect. The method detection limit (MDL) is the lowest concentration at which a compound can be detected and is associated with a 95 percent confidence that the compound is present in the sample. Compounds detected at levels greater than the MDL and less than the RL are reported as estimated concentrations. The laboratory analytical report for the soil vapor samples includes higher RLs for GRO and VOCs because of the elevated concentrations of the isopropyl alcohol. Essel; therefore, requested that the laboratory also include the MDLs associated with each compound so potential compounds at low concentrations would be reported.

Gasoline Range Organics

The results of laboratory analyses show gasoline range organics were detected in vapor probes installed in borings EE-2, EE-3, and EESV-1 at concentrations ranging from 1,900 to 116,000 micrograms per cubic meter ($\mu g/m^3$). These borings are located in the southern and southeastern portions of the site near historic oil wells H. Rogalske 1-1 and 3. The highest concentration (116,000 $\mu g/m^3$) was detected in the vapor sample collected from boring EE-3, directly overlying the petroleum product encountered in this boring. Relatively low concentrations of 1,900 and 15,200 $\mu g/m^3$ GRO were detected in the respective shallow and deeper vapor samples collected in boring EE-2 and relatively low concentrations of 17,800 and 9,410 $\mu g/m^3$ GRO were detected in the respective shallow and deeper vapor samples collected in boring EESV-1. No GRO was detected in the 10- and 20-foot-depth vapor samples collected from boring EE-1, located near the western edge of the site (426 Firmin Street parcel).

The USEPA and the DTSC have not established screening levels for GRO in soil vapor or indoor air to evaluate human health risk associated with vapor intrusion. The San Francisco Bay

Regional Water Quality Control Board (2016); however, has developed ESLs for GRO to assess the soil vapor to indoor air exposure pathway. The most stringent ESL for GRO, based on nuisance odors, is 50,000 µg/m^3; whereas, the ESL for GRO based on human health risk from direct exposure is 300,000 µg/m^3. The concentration of GRO in vapor probe EE3-SV7, located directly above the petroleum product, was greater than the nuisance odor ESL, but well below the health-risk-based ESL. Concentrations of GRO in the other vapor samples were well below 50,000 µg/m^3 and; therefore, also well below the health-risk-based ESL. Table 3 presents the concentrations of GRO detected in soil vapor at the site and the corresponding nuisance odors and health-risk-based ESLs and Appendix D contains the laboratory analytical report.

Volatile Organic Compounds

Several VOCs were sporadically detected in six of the seven vapor samples at concentrations ranging from 41 to 63,000 µg/m^3. Detected analytes included the petroleum-related hydrocarbon compounds carbon disulfide, cyclohexane, hexane, toluene, and xylenes and the chlorinated hydrocarbon trichloroethene.

Cyclohexane was detected at the highest concentrations in vapor samples EE3-SV7 (63,000 µg/m^3), EE2-SV20 (8,100 µg/m^3), and EESV1-20 (3,000 µg/m^3) and hexane was found in samples EE2-SV20 and EESV1-20 at respective concentrations of 1,100 and 800 µg/m^3. Carbon disulfide was detected at a moderate concentration of 160 µg/m^3 in shallow vapor sample EE2-SV7 and at an estimated concentration of 70 µg/m^3 in shallow vapor sample EESV1-10. Relatively low, estimated concentrations of toluene (110 µg/m^3) and xylenes (41 to 85 µg/m^3) were detected in the 20-foot-depth vapor samples from northwestern boring EE-1 (EE1-SV20) and southeastern boring EE-2 (EE2-SV20). The chlorinated hydrocarbon solvent trichloroethene was found in one soil vapor sample (EESV1-20) at an estimated concentration of 67 µg/m^3. No other VOCs were detected in the soil vapor samples.

The DTSC (2018) and the USEPA (2017) have published human-health-risk indoor air screening levels for a number of volatile compounds and these screening levels may be compared to soil vapor concentrations using an attenuation factor for vapor migration through building foundations. For a future residential building at a site, the DTSC (2011) uses an attenuation factor of 0.001. Indoor air screening levels are multiplied by 1,000 and the resulting concentrations are compared to soil vapor concentrations. Based on the 0.001 attenuation factor, none of the concentrations of compounds detected in the soil vapor samples at the site were greater than the corresponding screening levels for a residential property. Table 3 presents the results of analyses for benzene, toluene, ethylbenzene, and xylenes and for other VOCs that were detected in one or more of the soil vapor samples, along with corresponding screening levels. Appendix D contains the laboratory analytical report that includes the results of all VOCs included in USEPA Method 8260B.

Methane

Methane was detected in the seven soil vapor samples, but at trace to low concentrations ranging from less than 1 ppmv to 110 ppmv. The lowest concentrations of 0.95 and 5.7 ppmv were found in the shallower and deeper vapor samples collected from northwestern boring EE-1. Methane was detected from 56 to 99 ppmv in vapor samples from borings EE-2 and EESV-1, located in the southeastern portion of the site, and was detected at 110 ppmv in the vapor sample from southern boring EE-1 in which petroleum product was encountered.

The DTSC (2005) defines a methane hazard as an accumulation or potential accumulation of methane beneath a structure at concentrations greater than 5,000 ppmv. A methane concentration of 5,000 ppmv or greater is considered to be an action level where some mitigative measure should be implemented to avoid a potential for an explosion hazard. The concentrations of methane detected in the seven soil vapor samples are well below this action level. Table 3 presents the concentrations of methane detected in soil vapor at the site and the corresponding DTSC action level. Appendix D contains the laboratory analytical report.

4.0 FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

4.1 Findings

The following is a summary of the findings of this subsurface environmental investigation.

- Historical records reported by others indicate that the three parcels comprising the site have been used for residential purposes and reportedly also used for oil exploration and production.
- Online records available at the state of California Division of Oil, Gas & Geothermal Resources show the site is within the Los Angeles City oil field and that two historic oil wells (H. Rogalske 1-1 and 2A) were present on the site and three historic wells (H. Rogalske 3, C.V. Hall 8, and H. Harrison 1) were located on adjacent properties to the northeast and southeast. An anomaly detected during a 2017 geophysical survey performed by others; however, suggests the H. Rogalske 3 well is on the site. Records indicate the southern on-site well (H. Rogalske 1-1) was abandoned in 1941. No records are available for the two other on-site wells (H. Rogalske 2A and 3) and DOGGR lists the status of these wells as buried-idle.
- The site is identified to be within a methane zone as designated by the Los Angeles Department of Public Works.
- The results of two subsurface environmental investigations and a geotechnical investigation at the site indicate predominantly silt and clay sediments underlie the site to a depth of 25 feet below the ground surface. Artificial fill was observed in some areas between the ground surface and a maximum 2½ feet below grade. The deeper sediments encountered in borings may be weathered and unweathered shale, siltstone, and sandstone. Ground water was not encountered in borings advanced/drilled at the site to a maximum depth of 40 feet below the ground surface.
- The results of the subsurface environmental investigations show that diesel and motor-oil range petroleum hydrocarbons (DRO and MORO) have impacted soil in the southeastern and southern portions of the site. Relatively elevated concentrations (between 870 and 11,500 mg/kg) were found in EFI Global borings B2, B3, and B4 and Essel boring EE-3. The elevated concentrations were found in soil as shallow as 2 feet to as deep as 25 feet below the ground surface. Notably lower or no detectable concentrations of DRO and MORO were found in borings B1, B5, B6, EE-1, and EE-2, which were advanced in the central, northern, and western portions of the site. Low concentrations of gasoline petroleum hydrocarbons (GRO) and volatile organic compounds (VOCs) were only sporadically detected in soil samples. The lateral extent of petroleum-impacted soil is generally defined to underlie the southeastern portion of the site. The vertical extent of petroleum-impacted soil in this area extends to a depth greater than 25 feet and has not been defined.
- A void was encountered in Essel boring EE-3 between the depths of 3 and approximately 8 feet and oil, oily sludge, and oil-saturated soil were encountered in this boring from 8 to

approximately 15 feet below the ground surface. Boring EE-3 was advanced near the southern corner of the site. This oil and oily sludge were not encountered in EFI Global, boring B2, located approximately 5 feet east of boring EE-3. The extent of this oil is not defined to the north or northwest on the site or the southwest off the site.

- Concentrations of diesel range petroleum hydrocarbons in the soil are greater than the human-health-risk environmental screening level for direct contact. The concentrations of gasoline and motor oil range petroleum hydrocarbons and VOCs in soil are below the corresponding environmental screening levels for direct contact. Concentrations of the Title 22 metals in soil are also below corresponding screening levels and are considered to be naturally occurring concentrations.
- Relatively low concentrations of GRO, VOCs, and methane were detected in soil vapor samples collected at the site. The highest concentrations of these volatile compounds were detected in vapor probe EE3-SV7, which was installed directly over the oil/oily sludge found in boring EE-3. None of the compounds detected in the soil vapor probes were at concentrations greater than applicable human-health-risk-based vapor intrusion screening levels for GRO and VOCs or the action level for methane.

4.2 Conclusions and Recommendations

Following are conclusions drawn from the findings of the investigations.

- The historical records of site use and the nature of the petroleum hydrocarbons detected in the subsurface suggest the source(s) of the contaminants were the former oil field exploration and production activities.
- Boring EE-1 appears to have been advanced through an abandoned pit that was possibly used to contain petroleum-related wastes generated during historic oil field operations. The chemical character of this waste with respect to potential hazardous constituents has not been evaluated.
- Laboratory analytical results indicate a potential human health risk is present from direct contact to soil containing diesel range petroleum hydrocarbons. Gasoline range organics, MORO, and VOCs were not found at concentrations the present a potential health risk from direct contact.
- Soil vapor data do not suggest a vapor intrusion health risk is present for volatile petroleum and non-petroleum constituents or that an explosion hazard is present due to the presence of methane. Some dilution of detected concentrations likely occurred in samples containing elevated concentrations of the leak-check tracer (isopropyl alcohol); however, high concentrations of contaminants were not found in soil vapor samples where little or no tracer was detected.

Based on the above conclusions and the understanding that The Decro Corporation plans to redevelop the site with a multi-story residential building, Essel offers the following recommendations.

- Prepare a Site Management Plan for the planned redevelopment. This plan will address health and safety measures; characterization of soil to be disposed off-site; characterization, removal, and disposal of oil and oily waste encountered in boring EE-3, dust and organic vapor control measures, air monitoring as might be required, and contingency measures to be taken if unanticipated subsurface conditions are encountered.
- Abandon any oil wells encountered during redevelopment activities according to applicable state and local standards.

- Further characterization of the oil, oily sludge, and oil saturated soil at the location of boring EE-3 according to the requirements of a potential disposal facility. Delineation of the lateral extent of the presumed sump may be desired before excavation in this southern corner of the site takes place.

In addition, incorporation of methane or other VOC vapor intrusion mitigation measures into the design and construction of the new residential building may be warranted or desired.

Limitations to this investigation are included in Appendix E.

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TABLE 1
Concentrations of Organic Compounds in Soil Samples
418, 426, and 430 Firmin Street, Los Angeles, California

Boring Number	Date Sampled	Sample Designation	Sample Depth (feet)	Total Petroleum Hydrocarbons				Volatile Organic Compounds (VOCs)													
				Gasoline C4-C12	Diesel C9-C22	Motor Oil C23-C32	Motor Oil C33-C36	B	T	E	m,p-X	o-X	MTBE	Naphth	TBA	n-Butyl	s-Butyl	t-Butyl	IP benzene	n-P benzene	All Other VOCs
2017 Subsurface Investigation (EFI Global, Inc.)																					
B-1	10/4/2017	B1-S-2	2	--	**44.0**	**439**	**147**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	10/4/2017	B2-S-2	2	--	**5,790**	**4,620**	**341**	**0.00321**	<0.0020	**0.00802**	<0.0020	<0.0020	<0.0040	**0.00448**	**0.0436**	<0.0040	**0.0128**	**0.00741**	**0.031**	**0.00862**	ND <0.0020 to <0.080
B-3	10/4/2017	B3-S-10	10	--	**11,500**	**7,260**	**348**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/4/2017	B3-S-20	20	--	**6,680**	**7,520**	**375**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-4	10/4/2017	B4-S-10	10	--	**3,040**	**2,770**	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
				Gasoline C4-C12	**Diesel C13-C22**	**Motor Oil C23-C32**	**Motor Oil C33-C36**														
B-2	10/4/2017	B2-S-25	25	**14.0**	**3,160**	**3,240**	**320**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-5	10/4/2017	B5-S-15	15	<0.50	**21.3**	**135**	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-6	10/4/2017	B6-S-5	5	<0.50	<2.5	<100	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018 Subsurface Investigation (Essel Environmental Consulting)																					
				Gasoline C6-C12	**Diesel C13-C28**	**Motor Oil C23-C32**	**Motor Oil C29-C40**														
EE-1	4/2/2018	EE1-7	7	<0.50	**13**	--	<10	<0.0060	<0.0060	<0.0060	<0.012	<0.0060	--	<0.0060	--	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	ND <0.0060 to <0.012
	4/2/2018	EE1-18.5	18½	<0.50	<10	--	<10	<0.0073	<0.0073	<0.0073	<0.015	<0.0073	--	<0.0073	--	<0.0073	<0.0073	<0.0073	<0.0073	<0.0073	ND <0.0073 to <0.015
EE-2	4/2/2018	EE2-7	7	<0.50	<10	--	<10	<0.0059	<0.0059	<0.0059	<0.012	<0.0059	--	<0.0059	--	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	ND <0.0059 to <0.012
	4/2/2018	EE2-19.5	19½	<0.50	**330**	--	**260**	<0.0080	<0.0080	<0.0080	<0.016	<0.0080	--	<0.0080	--	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	ND <0.0080 to <0.016
EE-3	4/2/2018	EE3-10	10	**5.5**	**1,300**	--	**870**	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	**0.019**	<0.0050	ND <0.0050 to <0.010
	4/2/2018	EE3-19	19	**5.3**	**900**	--	**1,900**	**0.0075**	<0.0058	**0.010**	<0.012	<0.0058	--	<0.0058	--	<0.0058	<0.0058	<0.0058	**0.025**	<0.0058	ND <0.0058 to <0.012
Residential Screening Levels																					
SFBRWQCB-Health Risk Direct Exposure				**740**	**230**	--	**11,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SFBRWQCB-Nuisance Odors				**100**	**500**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
USEPA/DTSC-Health Risk Direct Exposure				--	--	--	--	**0.33**	**1,100**	**5.8**	**550**	**650**	**47**	**3.8**	--	**1,200**	**2,200**	**2,200**	**1,900**	**3,800**	**Chemical Specific**

Analytical results and screening levels are in milligrams per kilogram = parts per million.

Detectable concentrations are in bold font and shaded gray. Detectable concentrations greater than applicable environmental screening levels are shaded yellow.

BTEX = benzene, toluene, ethylbenzene, total xylenes

MTBE = methyl tertiary butyl ether

Naphth = naphthalene

TBA = tert butyl alcohol

n-Butyl = n-Butylbenzene

s-Butyl = sec Butylbenzene

t-Butyl = tert Butylbenzene

IP benzene = isopropyl benzene

n-P benzene = n Propyl benzene

Sample designations: B6-S-5 = Boring number- Soil - Depth sample collected below the ground surface

EE3-19 = Boring number - Depth sample collected below the ground surface

< = less than the laboratory reporting limit shown.

-- = not analyzed or not available.

SFBRWQCB = San Francisco Bay Regional Water Quality Control Board

USEPA/DTSC = United States Environmental Protection Agency/California Department of Toxic Substances Control

TABLE 2
Concentrations of Inorganic Elements in Soil Samples
418, 426, and 430 Firmin Street, Los Angeles, California

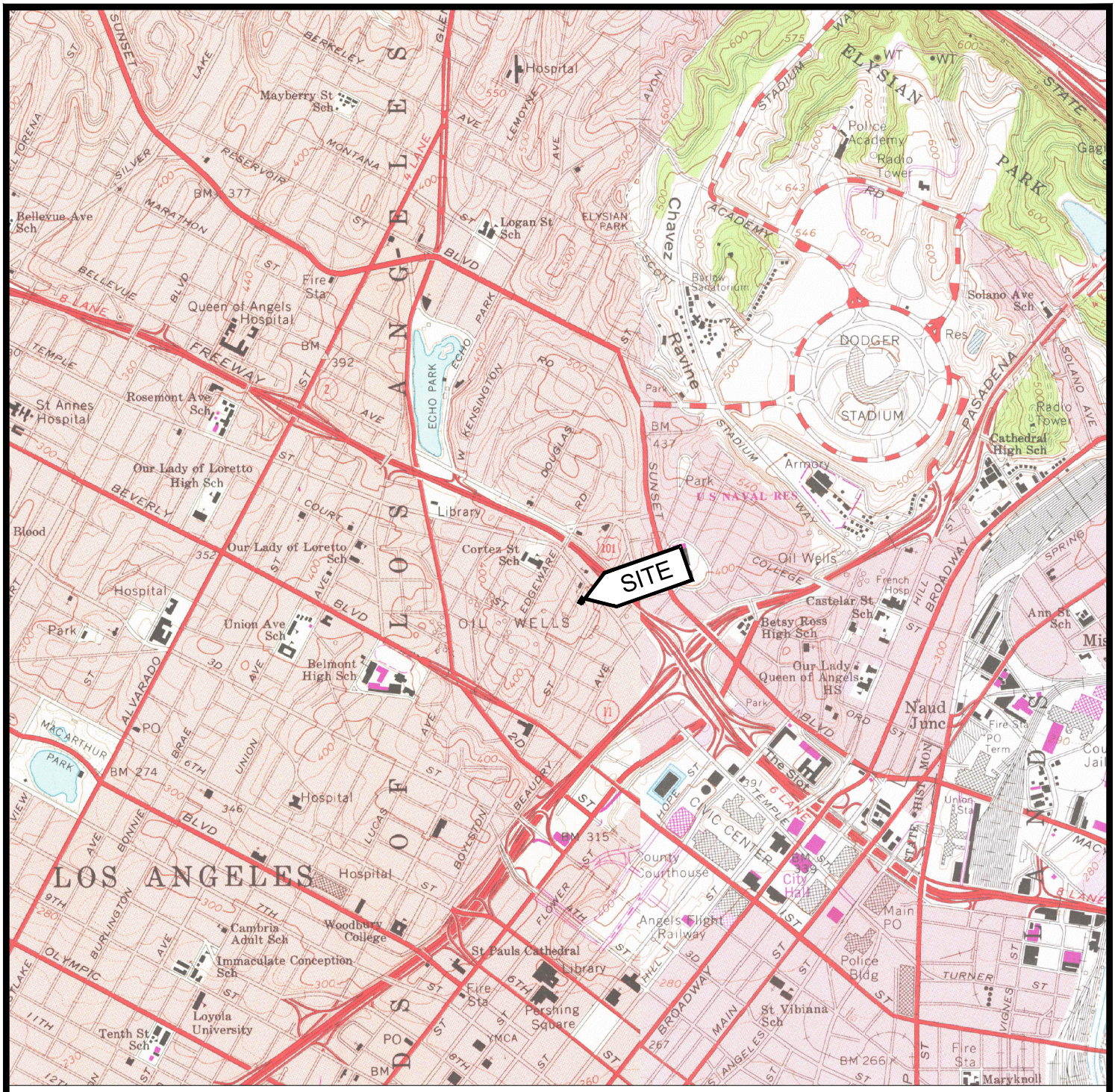
Boring Number	Date Sampled	Sample Number	Sample Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cr III/Cr VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
2017 Subsurface Investigation (EFI Global, Inc.)																				
B-1	10/4/17	B1-S-2	2	<2.0	**10.9**	**283**	<1.0	<1.0	**20.1**	**14.0**	**34.8**	**54.0**	**0.131**	**2.53**	**33.0**	<2.0	<1.0	<2.0	**47.0**	**106**
B-2	10/4/17	B2-S-2	2	<2.0	**6.84**	**310**	<1.0	<1.0	**15.7**	**10.1**	**21.7**	**8.67**	<0.100	<1.00	**19.8**	<2.0	<1.0	<2.0	**31.7**	**39.8**
	10/4/17	B2-S-25	25	<2.0	**9.28**	**202**	<1.0	**1.08**	**25.8**	**10.7**	**34.1**	**6.29**	**0.114**	**3.13**	**29.1**	**2.03**	<1.0	<2.0	**48.0**	**65.9**
B-3	10/4/17	B3-S-10	10	<2.0	**5.58**	**146**	<1.0	<1.0	**19.4**	**7.35**	**20.9**	**9.14**	<0.100	**1.27**	**13.0**	<2.0	<1.0	<2.0	**38.5**	**51.6**
	10/4/17	B3-S-20	20	<2.0	**12.7**	**171**	<1.0	**1.10**	**21.3**	**12.0**	**26.2**	**5.33**	<0.100	**9.87**	**37.1**	<2.0	<1.0	<2.0	**41.0**	**66.5**
B-4	10/4/17	B4-S-10	10	<2.0	**5.94**	**259**	<1.0	**1.72**	**16.8**	**9.35**	**34.3**	**5.32**	**0.100**	**1.43**	**27.1**	<2.0	<1.0	<2.0	**32.9**	**65.5**
B-5	10/4/17	B5-S-15	15	<2.0	**3.53**	**188**	<1.0	<1.0	**17.9**	**5.39**	**13.1**	**7.70**	**0.117**	**5.40**	**7.90**	<2.0	<1.0	<2.0	**30.2**	**34.1**
B-6	10/4/17	B6-S-5	5	<2.0	**9.34**	**250**	<1.0	<1.0	**27.9**	**12.70**	**35.9**	**15.6**	<0.100	**4.09**	**31.9**	<2.0	<1.0	<2.0	**52.8**	**76.2**
Residential Screening Levels																				
USEPA/DTSC				**31**	**Bkg**	**15,000**	**15**	**5.2**	**36,000/0.3**	**23**	**3,100**	**80**	**1.0**	**390**	**15,000**	**390**	**390**	**0.78**	**390**	**23,000**
Background (DTSC)					**12**															

Soil results and ESLs are in milligrams per kilogram = parts per million.
Detectable concentrations are in boldface type. Concentrations greater than corresponding screening levels are highlighted yellow.
< = less than the laboratory reporting limit shown.
Bkg = background concentration
Sample Designation: B6-S-5 = Boring number - Soil - Depth sample collected below the ground surface
USEPA/DTSC = United States Environmental Protection Agency/California Department of Toxic Substances Control

TABLE 3
Concentrations of Volatile Organic Compounds in Soil-Vapor Samples
418, 426, and 430 Firmin Street, Los Angeles, California

Soil Probe	EE-1		EE-2		EE-3	EESV-1		Screening Levels	
Date	04/03/18		04/03/18		04/03/18	04/03/18		Future Residence	
Sample Number	EE1-SV10	EE1-SV20	EE2-SV7	EE2-SV20	EE3-SV7	EESV1-10	EESV1-20	SFBRWQCB	USEPA/DTSC
Depth of Sample (feet)	10	20	7	20	7	10	20		
Analyte									
Benzene	<160	<160	<160	<160	<160	<160	<160		**97**
Toluene	<190	<190	<190	**110 J**	<190	<190	<190		**310,000**
Ethylbenzene	<220	<220	<220	<220	<220	<220	<220		**1,100**
m,p-xylene	<220	**53 J**	<220	**85 J**	<220	<220	<220		**100,000**
o-xylene	<220	<220	<220	**41 J**	<220	<220	<220		**100,000**
Cyclohexane	<170	<170	<170	**8,100**	**63,000**	<170	**3,000**		**6,300,000**
Hexane	<180	<180	<180	**1,100**	<180	<180	**800**		**730,000**
Carbon disulfide	<160	<160	**160**	<160	<160	**70 J**	<160		**730,000**
2-propanol (isopropyl alcohol)	**3,800,000**	**11,000,000**	**1,900**	**1,100,000**	<130	<130	**2,900,000**		**NA**
Trichloroethene	<270	<270	<270	<270	<270	<270	**67 J**		**480**
Gasoline range organics	<7170	<7,170	**1,900 J**	**15,200**	**116,000**	**17,800**	**9,410**	**50,000/300,000#**	
Methane (percent)	**0.000095**	**0.00057**	**0.0056**	**0.0099**	**0.011**	**0.0071**	**0.0075**		**--**
Methane (ppmv)	**0.95**	**5.7**	**56**	**99**	**110**	**71**	**75**		**5,000**

Results and screening levels are in micrograms per cubic meter.
Detectable concentrations are in boldface type. Concentrations greater than applicable screening levels are shaded yellow.
ppmv = parts per million by volume (methane results only).
< = less than the laboratory reporting limit shown.
J = estimated concentration greater than the method detection limit and less than the reporting limit.
= nuisance odors screening level/human health risk screening level.
Sample designation: EE3-SV7 = Boring number - Depth of soil vapor sample
SFBRWQCB = San Francisco Bay Regional Water Quality Control Board
USEPA/DTSC = United States Environmental Protection Agency/California Department of Toxic Substances Control

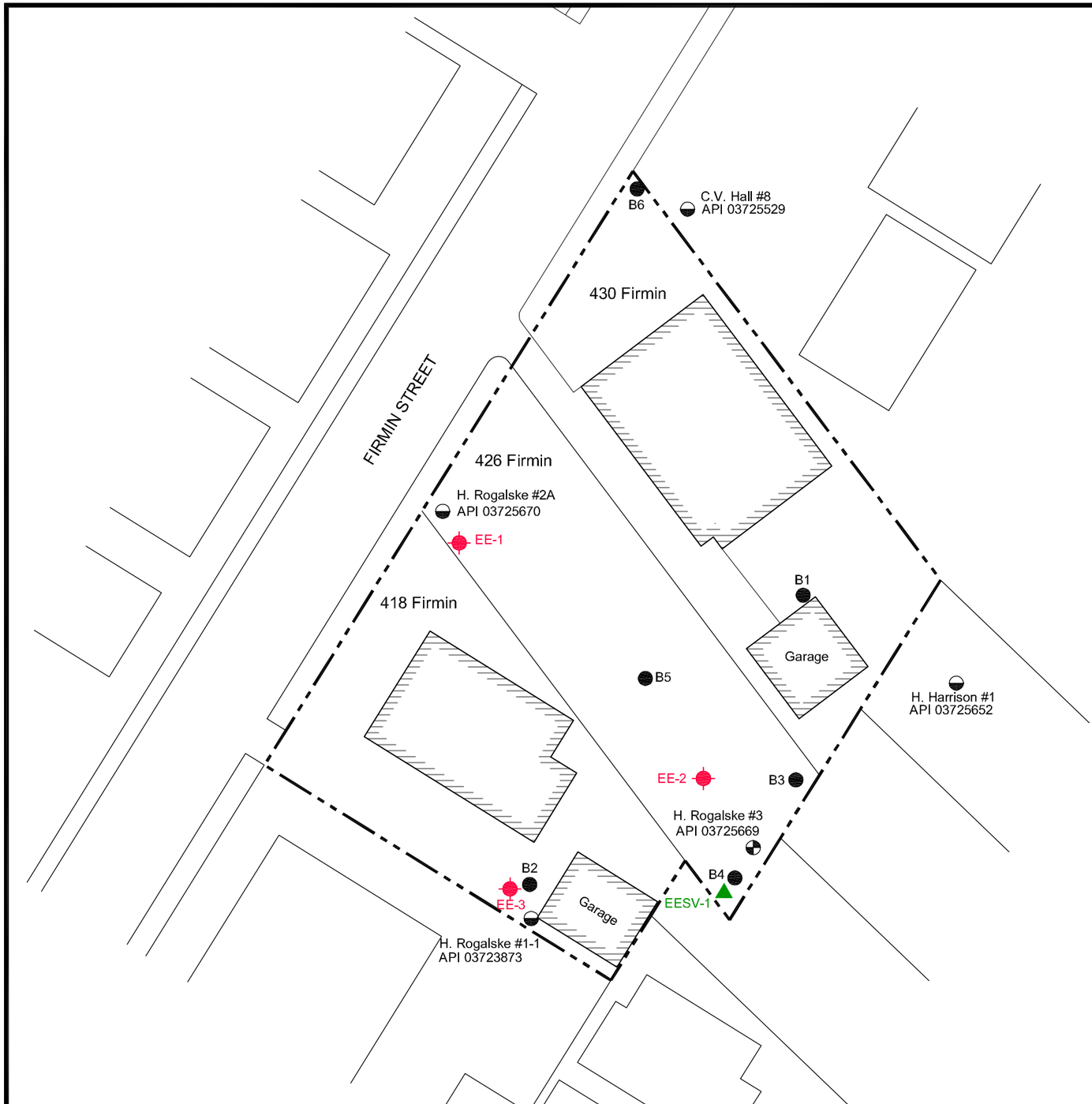


Source: USGS 7 1/2–Minute Quadrangles
Hollywood, California, 1994
Los Angeles, California, 1994

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	April 2018	Site Unit MU	1

Vessel Environmental Consulting
1035 22nd Avenue, Suite 9
Oakland CA 94606
1–800–595–7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026



EXPLANATION

- APPROXIMATE PROPERTY BOUNDARY
- SITE DWELLING
- B6 — SOIL BORING LOCATION (EFI GLOBAL, 2017)
- EE-3 — SOIL BORING/VAPOR PROBE LOCATION (ESSEL, 2018)
- EESV-1 — SOIL VAPOR PROBE LOCATION (ESSEL, 2018)
- SUSPECTED OIL WELL LOCATION WITH API NUMBER (DOGGR AND GEOPHYSICAL)
- SUSPECTED OIL WELL LOCATION WITH API NUMBER (DOGGR ONLY)
- API — AMERICAN PETROLEUM INSTITUTE
- DOGGR — DIVISION OF OIL, GAS & GEOTHERMAL RECOURCES (STATE OF CALIFORNIA)

N

Scale: 0 20 feet 40 feet

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	April 2018

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Oakland, California 94606
1-800-595-7616

Site Plan and Boring/ Vapor Probe Locations
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE 2

APPENDIX A

DRILLING PERMIT

ENVIRONMENTAL HEALTH

Drinking Water Program
5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

COUNTY OF LOS ANGELES
Public Health

Work Plan Approval

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS
418-430 Firmin Street	Los Angeles	90026	nlahiri@esseltek.com

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

X	WORK PLAN APPROVED FOR: 3 Soil Boring/Exp. Hole	**PERMIT NUMBER:**	SR0138386	**DATE:**	March 29, 2018

ADDITIONAL APPROVAL CONDITIONS:

- Work plan approval is issued for the most current scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- Ensure to backfill using a tremie pipe under pressure or equivalent equipment with approved cement grout, proceeding upward from the bottom of the boring/exploration hole.
- Ensure soil borings are sealed per California Well Standards 74-90
  - Cement grout mix ratio of 5-6 gallons of water per 94-pound bag of Portland cement.
  - Up to 6% of Bentonite may be added to the cement-based mix.
  - No hydrated Bentonite chips
- Borings/Exploration holes must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and the Los Angeles County Code, Title 11.
- Soil Vapor Probe, (EESV-1) is not required to be permitted by the Drinking Water Program.

APPROVED BY:

Teri Hachey, REHS
26415 Carl Boyer Dr.
Santa Clarita, Ca 91350
(661) 287-7017

Teri Hachey

5770

APPENDIX B

LOGS OF BORINGS

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		LTR	DESCRIPTION
Coarse-grained soils	Gravel and gravelly soils	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sand and sandy soils	SW	Well-graded sand or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine-grained soils	Silts and clays LL<50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and clays LL>50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils. Elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silts
Highly organic soils		PT	Peat and other highly organic soils

Depth through which sampler is driven

Relatively undisturbed sample retained for analysis

No sample recovered

Static water level observed in well

Initial water level observed in boring

PID Photoionization Detector (readings in ppm)

Sand pack

Bentonite

Neat cement

Caved or backfilled native soil

Blank PVC

Machine-slotted PVC

Concrete

BLOWS REPRESENT THE NUMBER OF BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES TO DRIVE THE SAMPLER THROUGH EACH 6 INCHES OF AN 18-INCH PENETRATION. THE INTERVAL LENGTH IS SHOWN WHERE LESS THAN 6 INCHES WAS PENETRATED WITH THE MAXIMUM 50 BLOWS.

DASHED LINES SEPARATING UNITS ON THE LOG REPRESENT APPROXIMATE BOUNDARIES ONLY. ACTUAL BOUNDARIES MAY BE GRADUAL. LOGS REPRESENT SUBSURFACE CONDITIONS AT THE BORING LOCATION AT THE TIME OF DRILLING ONLY.

NAMES AND NUMERICAL DESIGNATIONS OF COLORS ARE FROM THE ROCK-COLOR CHART (GEOLOGICAL SOCIETY OF AMERICA, 1984)

PERCENT BY WEIGHT DESIGNATION

TRACE	0-5 PERCENT
SOME	5-15 PERCENT
WITH	15-30 PERCENT
-Y (EX., SANDY)	30-45 PERCENT
AND	45-50 PERCENT

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	April 2018

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UNIFIED SOIL CLASSIFICATION SYSTEM AND SYMBOL KEY
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
B-1

Total depth of boring:	24 feet	Casing diameter:	NA
Diameter of boring:	2 1/2 inches	Casing material:	NA
Date drilled:	4/2/2018	Slot size:	NA
Drilling Company:	BC2	Sand size:	NA
Driller:	Sam	Blank casing from	NA to NA
Drilling method:	Direct push	Perforated casing from	NA to NA
Sample diameter:	1 1/4 inches	Annular seal from	NA to NA
Field Geologist:	Adam Klein	Bentonite plug from	NA to NA
		Sand pack from	NA to NA

Hand auger from 0 to 5 feet

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
0			CL	Silty clay, brown, damp, stiff, medium plasticity.	
1					
2		0.0			
3					
4					
5				As above.	
6					
7	EE1–7	2.0		Silty clay, brown and light gray with some mottling, damp, stiff, medium plasticity.	
8					
9					
10		2.0		As above.	
11					

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	April 2018	LOG OF BORING EE-1 (Vapor Probes EE1-SV10 and EE1-SV20)	B-2

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Oakland, California 94606
1–800–595–7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
13			CL	Silty clay, brown and light gray with some mottling, damp, stiff, medium plasticity.	
14		2.9		As above	
15					
16					
17					
18					
19	EE1–18.5	0.0		Silty clay, as above.	
20					
21		0.0		As above	
22					
23					
24		0.0		Total Depth = 24 feet. No ground water encountered.	
25					
26					
27					
28					
29					

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	April 2018

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Oakland, California 94606
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LOG OF BORING EE-1
(Vapor Probes EE1-SV10 and EE1-SV20)
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
B-3

Total depth of boring:	28 feet	Casing diameter:	NA
Diameter of boring:	2 1/2 inches	Casing material:	NA
Date drilled:	4/2/2018	Slot size:	NA
Drilling Company:	BC2	Sand size:	NA
Driller:	Sam	Blank casing from	NA to NA
Drilling method:	Direct push	Perforated casing from	NA to NA
Sample diameter:	1 1/4 inches	Annular seal from	NA to NA
Field Geologist:	Adam Klein	Bentonite plug from	NA to NA
		Sand pack from	NA to NA

Hand auger from 0 to 5 feet

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
0			CL	Silty clay, mottled light gray to light brown, damp, very stiff.	
1					
2		0.0			
3					
4					
5			CL	Silty clay, gray, damp, stiff to very stiff, slight hydrocarbon odor.	
6		9.1			
7	EE2–7			As above, slight hydrocarbon odor.	
8					
9		6.8			
10					
11				As above, slight hydrocarbon odor.	
		2.7			

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	April 2018

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LOG OF BORING EE-2
(Vapor Probes EE2-SV7 and EE2-SV20)
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
B-4

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
			CL	Silty clay, gray, damp, stiff to very stiff, slight hydrocarbon odor.	
13	EE2–12.5				
		7.0			
14				Silty clay, color transition to brown/greenish gray, dry to damp, very stiff, no obvious hydrocarbon odor.	
15					
		11.5			
16					
		31.8		As above.	
17					
18				Silty clay, dark gray, damp, very stiff, hydrocarbon odor.	
		122			
19					
20	EE2–19.5				
		193		Silty clay, olive gray, dry to damp, very stiff, trace hydrocarbon odor.	
21					
22					
23					
		370			
24					
25					
		250		As above.	
26				Hard drilling at approximately 26 feet.	
27					
28				Total Depth = 28 feet. No ground water encountered. Borehole collapses from 28 to 22 feet below grade after pull drill rod.	
29					

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	April 2018

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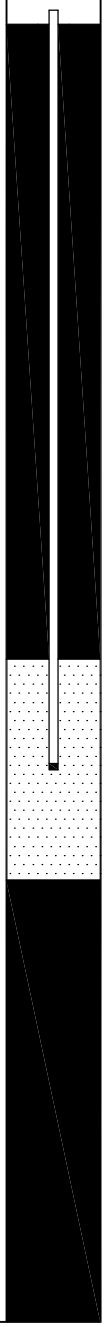
LOG OF BORING EE-2
(Vapor Probes EE2-SV7 and EE2-SV20)
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
B-5

Total depth of boring:	24 feet	Casing diameter:	NA
Diameter of boring:	2 1/2 inches	Casing material:	NA
Date drilled:	4/2/2018	Slot size:	NA
Drilling Company:	BC2	Sand size:	NA
Driller:	Sam	Blank casing from	NA to NA
Drilling method:	Direct push	Perforated casing from	NA to NA
Sample diameter:	1 1/4 inches	Annular seal from	NA to NA
Field Geologist:	Adam Klein	Bentonite plug from	NA to NA
		Sand pack from	NA to NA

Hand auger from 0 to 5 feet

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
0		100	CL	Silty clay, black, damp, very stiff, high plasticity, strong hydrocarbon odor.	
3				Wood and plastic at 3 feet.	
4				No recovery from 4 to 8 feet.	
8		16.4		Silty clay, olive gray to dark gray, damp, medium stiff, high plasticity.	
10	EE3–10				
11		20.9			



PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	April 2018

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LOG OF BORING EE-3
(Vapor Probe EE3-SV7)
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
B-6

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
13			CL	Poor recovery from 12 to 14 feet, possible oil sheen observed.	
14		220		Silty clay, olive gray, moist to wet, soft, high plasticity, possible hydrocarbon odor.	
15				Silty clay, brown and gray with mottling, damp, stiff, medium plasticity.	
16					
17					
18					
19	EE3-19	42			
20					
21				As above.	
22					
23					
24		240		Total Depth = 24 feet. No ground water encountered. Liquid (suspected petroleum product) in borehole at 8 feet below ground surface after remove drill rods.	
25					
26					
27					
28					
29					

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	April 2018

Essel Environmental Consulting
1035 22nd Avenue, Unit 9
Oakland, California 94606
1-800-595-7616

LOG OF BORING EE-3
(Vapor Probe EE3-SV7)
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
B-7

Total depth of boring:	20 feet	Casing diameter:	NA
Diameter of boring:	2 1/2 inches	Casing material:	NA
Date drilled:	4/2/2018	Slot size:	NA
Drilling Company:	BC2	Sand size:	NA
Driller:	Sam	Blank casing from	NA to NA
Drilling method:	Direct push	Perforated casing from	NA to NA
Sample diameter:	1 1/4 inches	Annular seal from	NA to NA
Field Geologist:	Adam Klein	Bentonite plug from	NA to NA
		Sand pack from	NA to NA

Hand auger from 0 to 5 feet

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
		0.0	CL	Silty clay, mottled light gray to light brown, damp, very stiff, high plasticity.	
1					
2					
3					
4					
5					
		6.9		Silty clay, light gray, grades to olive gray, dry, very stiff.	
6					
7					
		25		Silty clay, gray to dark gray, damp, very stiff.	
8				Silty clay, olive gray with some mottling, damp, very stiff.	
9					
		90		As above.	
10					
11					
		21		As above.	

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	April 2018

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Oakland, California 94606
1-800-595-7616

LOG OF BORING EE-4
(Vapor Probes EESV1-10 and EESV1-20)
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
B-8

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
			CL	Silty clay, olive gray with some mottling, damp, very stiff.	
13					
		10		As above.	
14					
15					
		2.4		As above, color grades to brown.	
16					
17					
		2.4			
18					
19					
		165			
20				Total Depth = 20 feet. No ground water encountered.	
21					
22					
23					
24					
25					
26					
27					
28					
29					

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	April 2018

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Oakland, California 94606
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LOG OF BORING EE-4
(Vapor Probes EESV1-10 and EESV1-20)
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
B-9

APPENDIX C

CHAIN-OF-CUSTODY FORM
AND
LABORATORY ANALYTICAL REPORT
FOR
SOIL SAMPLES

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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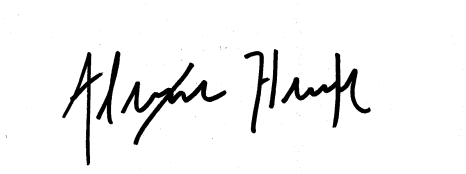
03 April 2018

Adam Klein
Essel Environmental Engineering & Consulting
351 California St. #615
San Francisco, CA 94104

RE: 418 Firmin Street, #18026

Enclosed are the results of analyses for samples received by the laboratory on 04/02/18 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Alexandra Huerta
Project Manager Assistant

SunStar Laboratories, Inc.
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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EE2-19.5	T181117-01	Soil	04/02/18 09:40	04/02/18 17:30
EE2-7	T181117-02	Soil	04/02/18 09:10	04/02/18 17:30
EE1-7	T181117-04	Soil	04/02/18 12:55	04/02/18 17:30
EE1-18.5	T181117-05	Soil	04/02/18 13:15	04/02/18 17:30
EE3-10	T181117-06	Soil	04/02/18 14:40	04/02/18 17:30
EE3-19	T181117-07	Soil	04/02/18 15:00	04/02/18 17:30

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Alexandra Huerta, Project Manager Assistant

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

DETECTIONS SUMMARY

Sample ID: EE2-19.5 **Laboratory ID:** T181117-01

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**330**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**260**	10	mg/kg	EPA 8015B	

Sample ID: EE2-7 **Laboratory ID:** T181117-02

No Results Detected

Sample ID: EE1-7 **Laboratory ID:** T181117-04

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**13**	10	mg/kg	EPA 8015B	

Sample ID: EE1-18.5 **Laboratory ID:** T181117-05

No Results Detected

Sample ID: EE3-10 **Laboratory ID:** T181117-06

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**5500**	500	ug/kg	EPA 8015B	
C13-C28 (DRO)	**1300**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**870**	10	mg/kg	EPA 8015B	
Isopropylbenzene	**19**	5.0	ug/kg	EPA 8260B/5035	

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351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

Sample ID: EE3-19 **Laboratory ID:** T181117-07

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**5300**	500	ug/kg	EPA 8015B	
C13-C28 (DRO)	**900**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**1900**	10	mg/kg	EPA 8015B	
Isopropylbenzene	**25**	5.8	ug/kg	EPA 8260B/5035	
Benzene	**7.5**	5.8	ug/kg	EPA 8260B/5035	
Ethylbenzene	**10**	5.8	ug/kg	EPA 8260B/5035	

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

EE2-19.5

T181117-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	500	ug/kg	1	8040304	04/03/18	04/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*76.9 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**330**	10	mg/kg	1	8040302	04/03/18	04/03/18	EPA 8015B	
C29-C40 (MORO)	**260**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*94.7 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	8.0	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Bromochloromethane	ND	8.0	"	"	"	"	"	"	
Bromodichloromethane	ND	8.0	"	"	"	"	"	"	
Bromoform	ND	8.0	"	"	"	"	"	"	
Bromomethane	ND	8.0	"	"	"	"	"	"	
n-Butylbenzene	ND	8.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	8.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	8.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	8.0	"	"	"	"	"	"	
Chlorobenzene	ND	8.0	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Chloroform	ND	8.0	"	"	"	"	"	"	
Chloromethane	ND	8.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	8.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	8.0	"	"	"	"	"	"	
Dibromochloromethane	ND	8.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	16	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8.0	"	"	"	"	"	"	
Dibromomethane	ND	8.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	8.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	8.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	8.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	8.0	"	"	"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

EE2-19.5

T181117-01 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethane	ND	8.0	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
1,2-Dichloroethane	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	8.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	8.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	8.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	8.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	8.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	8.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	8.0	"	"	"	"	"	"	
Isopropylbenzene	ND	8.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	8.0	"	"	"	"	"	"	
Methylene chloride	ND	8.0	"	"	"	"	"	"	
Naphthalene	ND	8.0	"	"	"	"	"	"	
n-Propylbenzene	ND	8.0	"	"	"	"	"	"	
Styrene	ND	8.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	8.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8.0	"	"	"	"	"	"	
Tetrachloroethene	ND	8.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	8.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	8.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	8.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	8.0	"	"	"	"	"	"	
Trichloroethene	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	8.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	8.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	8.0	"	"	"	"	"	"	
Vinyl chloride	ND	8.0	"	"	"	"	"	"	

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351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

EE2-19.5

T181117-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	8.0	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Toluene	ND	8.0	"	"	"	"	"	"	
Ethylbenzene	ND	8.0	"	"	"	"	"	"	
m,p-Xylene	ND	16	"	"	"	"	"	"	
o-Xylene	ND	8.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.4 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*		*81.2-123*	"	"	"	"	
Surrogate: Dibromofluoromethane		*138 %*		*95.7-135*	"	"	"	"	*S-GC*

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

EE2-7

T181117-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	500	ug/kg	1	8040304	04/03/18	04/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*95.7 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8040302	04/03/18	04/03/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*92.9 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	5.9	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Bromochloromethane	ND	5.9	"	"	"	"	"	"	
Bromodichloromethane	ND	5.9	"	"	"	"	"	"	
Bromoform	ND	5.9	"	"	"	"	"	"	
Bromomethane	ND	5.9	"	"	"	"	"	"	
n-Butylbenzene	ND	5.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.9	"	"	"	"	"	"	
Chlorobenzene	ND	5.9	"	"	"	"	"	"	
Chloroethane	ND	5.9	"	"	"	"	"	"	
Chloroform	ND	5.9	"	"	"	"	"	"	
Chloromethane	ND	5.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.9	"	"	"	"	"	"	
Dibromochloromethane	ND	5.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	12	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.9	"	"	"	"	"	"	
Dibromomethane	ND	5.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.9	"	"	"	"	"	"	

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EE2-7

T181117-02 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethane	ND	5.9	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
1,2-Dichloroethane	ND	5.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.9	"	"	"	"	"	"	
Isopropylbenzene	ND	5.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.9	"	"	"	"	"	"	
Methylene chloride	ND	5.9	"	"	"	"	"	"	
Naphthalene	ND	5.9	"	"	"	"	"	"	
n-Propylbenzene	ND	5.9	"	"	"	"	"	"	
Styrene	ND	5.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.9	"	"	"	"	"	"	
Tetrachloroethene	ND	5.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.9	"	"	"	"	"	"	
Trichloroethene	ND	5.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.9	"	"	"	"	"	"	
Vinyl chloride	ND	5.9	"	"	"	"	"	"	

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EE2-7

T181117-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.9	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Toluene	ND	5.9	"	"	"	"	"	"	
Ethylbenzene	ND	5.9	"	"	"	"	"	"	
m,p-Xylene	ND	12	"	"	"	"	"	"	
o-Xylene	ND	5.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*116 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*144 %*	*95.7-135*		"	"	"	"	*S-GC*

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351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

EE1-7

T181117-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	500	ug/kg	1	8040304	04/03/18	04/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**13**	10	mg/kg	1	8040302	04/03/18	04/03/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*94.1 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	6.0	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Bromochloromethane	ND	6.0	"	"	"	"	"	"	
Bromodichloromethane	ND	6.0	"	"	"	"	"	"	
Bromoform	ND	6.0	"	"	"	"	"	"	
Bromomethane	ND	6.0	"	"	"	"	"	"	
n-Butylbenzene	ND	6.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	6.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	6.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.0	"	"	"	"	"	"	
Chlorobenzene	ND	6.0	"	"	"	"	"	"	
Chloroethane	ND	6.0	"	"	"	"	"	"	
Chloroform	ND	6.0	"	"	"	"	"	"	
Chloromethane	ND	6.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	6.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	6.0	"	"	"	"	"	"	
Dibromochloromethane	ND	6.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	12	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	6.0	"	"	"	"	"	"	
Dibromomethane	ND	6.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	6.0	"	"	"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

EE1-7

T181117-04 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethane	ND	6.0	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
1,2-Dichloroethane	ND	6.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	6.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	6.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	6.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	6.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	6.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	6.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	6.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	6.0	"	"	"	"	"	"	
Isopropylbenzene	ND	6.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.0	"	"	"	"	"	"	
Methylene chloride	ND	6.0	"	"	"	"	"	"	
Naphthalene	ND	6.0	"	"	"	"	"	"	
n-Propylbenzene	ND	6.0	"	"	"	"	"	"	
Styrene	ND	6.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.0	"	"	"	"	"	"	
Trichloroethene	ND	6.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.0	"	"	"	"	"	"	
Vinyl chloride	ND	6.0	"	"	"	"	"	"	

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San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

EE1-7

T181117-04 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	6.0	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Toluene	ND	6.0	"	"	"	"	"	"	
Ethylbenzene	ND	6.0	"	"	"	"	"	"	
m,p-Xylene	ND	12	"	"	"	"	"	"	
o-Xylene	ND	6.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*119 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*131 %*	*95.7-135*		"	"	"	"	

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EE1-18.5

T181117-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	500	ug/kg	1	8040304	04/03/18	04/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*77.3 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8040302	04/03/18	04/03/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*82.3 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	7.3	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Bromochloromethane	ND	7.3	"	"	"	"	"	"	
Bromodichloromethane	ND	7.3	"	"	"	"	"	"	
Bromoform	ND	7.3	"	"	"	"	"	"	
Bromomethane	ND	7.3	"	"	"	"	"	"	
n-Butylbenzene	ND	7.3	"	"	"	"	"	"	
sec-Butylbenzene	ND	7.3	"	"	"	"	"	"	
tert-Butylbenzene	ND	7.3	"	"	"	"	"	"	
Carbon tetrachloride	ND	7.3	"	"	"	"	"	"	
Chlorobenzene	ND	7.3	"	"	"	"	"	"	
Chloroethane	ND	7.3	"	"	"	"	"	"	
Chloroform	ND	7.3	"	"	"	"	"	"	
Chloromethane	ND	7.3	"	"	"	"	"	"	
2-Chlorotoluene	ND	7.3	"	"	"	"	"	"	
4-Chlorotoluene	ND	7.3	"	"	"	"	"	"	
Dibromochloromethane	ND	7.3	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.3	"	"	"	"	"	"	
Dibromomethane	ND	7.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	7.3	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	7.3	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	7.3	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	7.3	"	"	"	"	"	"	

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EE1-18.5

T181117-05 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethane	ND	7.3	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
1,2-Dichloroethane	ND	7.3	"	"	"	"	"	"	
1,1-Dichloroethene	ND	7.3	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	7.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	7.3	"	"	"	"	"	"	
1,2-Dichloropropane	ND	7.3	"	"	"	"	"	"	
1,3-Dichloropropane	ND	7.3	"	"	"	"	"	"	
2,2-Dichloropropane	ND	7.3	"	"	"	"	"	"	
1,1-Dichloropropene	ND	7.3	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	7.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	7.3	"	"	"	"	"	"	
Hexachlorobutadiene	ND	7.3	"	"	"	"	"	"	
Isopropylbenzene	ND	7.3	"	"	"	"	"	"	
p-Isopropyltoluene	ND	7.3	"	"	"	"	"	"	
Methylene chloride	ND	7.3	"	"	"	"	"	"	
Naphthalene	ND	7.3	"	"	"	"	"	"	
n-Propylbenzene	ND	7.3	"	"	"	"	"	"	
Styrene	ND	7.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.3	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.3	"	"	"	"	"	"	
Tetrachloroethene	ND	7.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	7.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	7.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	7.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	7.3	"	"	"	"	"	"	
Trichloroethene	ND	7.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	7.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	7.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	7.3	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	7.3	"	"	"	"	"	"	
Vinyl chloride	ND	7.3	"	"	"	"	"	"	

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EE1-18.5

T181117-05 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	7.3	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Toluene	ND	7.3	"	"	"	"	"	"	
Ethylbenzene	ND	7.3	"	"	"	"	"	"	
m,p-Xylene	ND	15	"	"	"	"	"	"	
o-Xylene	ND	7.3	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*130 %*	*95.7-135*		"	"	"	"	

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EE3-10

T181117-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	**5500**	500	ug/kg	1	8040304	04/03/18	04/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*231 %*	*65-135*		"	"	"	"	*S-04*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**1300**	10	mg/kg	1	8040302	04/03/18	04/03/18	EPA 8015B	
C29-C40 (MORO)	**870**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*100 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	5.0	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	

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EE3-10

T181117-06 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethane	ND	5.0	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	**19**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	

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EE3-10

T181117-06 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Toluene	ND	5.0	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.2 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*136 %*	*95.7-135*		"	"	"	"	*S-GC*

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351 California St. #615	Project Number: 18026	**Reported:**
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EE3-19

T181117-07 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	**5300**	500	ug/kg	1	8040304	04/03/18	04/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*124 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**900**	10	mg/kg	1	8040302	04/03/18	04/03/18	EPA 8015B	
C29-C40 (MORO)	**1900**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*89.9 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	5.8	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Bromochloromethane	ND	5.8	"	"	"	"	"	"	
Bromodichloromethane	ND	5.8	"	"	"	"	"	"	
Bromoform	ND	5.8	"	"	"	"	"	"	
Bromomethane	ND	5.8	"	"	"	"	"	"	
n-Butylbenzene	ND	5.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.8	"	"	"	"	"	"	
Chlorobenzene	ND	5.8	"	"	"	"	"	"	
Chloroethane	ND	5.8	"	"	"	"	"	"	
Chloroform	ND	5.8	"	"	"	"	"	"	
Chloromethane	ND	5.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.8	"	"	"	"	"	"	
Dibromochloromethane	ND	5.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	12	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.8	"	"	"	"	"	"	
Dibromomethane	ND	5.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.8	"	"	"	"	"	"	

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Alexandra Huerta, Project Manager Assistant

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949.297.5020 Phone
949.297.5027 Fax

Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

EE3-19

T181117-07 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethane	ND	5.8	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
1,2-Dichloroethane	ND	5.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.8	"	"	"	"	"	"	
Isopropylbenzene	**25**	5.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.8	"	"	"	"	"	"	
Methylene chloride	ND	5.8	"	"	"	"	"	"	
Naphthalene	ND	5.8	"	"	"	"	"	"	
n-Propylbenzene	ND	5.8	"	"	"	"	"	"	
Styrene	ND	5.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.8	"	"	"	"	"	"	
Tetrachloroethene	ND	5.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.8	"	"	"	"	"	"	
Trichloroethene	ND	5.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.8	"	"	"	"	"	"	
Vinyl chloride	ND	5.8	"	"	"	"	"	"	
Benzene	**7.5**	5.8	"	"	"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

EE3-19

T181117-07 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Toluene	ND	5.8	ug/kg	1	8040303	04/03/18	04/03/18	EPA 8260B/5035	
Ethylbenzene	**10**	5.8	"	"	"	"	"	"	
m,p-Xylene	ND	12	"	"	"	"	"	"	
o-Xylene	ND	5.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*89.0 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*		*81.2-123*	"	"	"	"	
Surrogate: Dibromofluoromethane		*148 %*		*95.7-135*	"	"	"	"	*S-GC*

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

Purgeable Petroleum Hydrocarbons by EPA 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040304 - EPA 5030 GC										
Blank (8040304-BLK1)				Prepared & Analyzed: 04/03/18						
C6-C12 (GRO)	ND	500	ug/kg							
Surrogate: 4-Bromofluorobenzene	*108*		*"*	*100*		*108*	*65-135*			
LCS (8040304-BS1)				Prepared & Analyzed: 04/03/18						
C6-C12 (GRO)	2080	500	ug/kg	1970		106	75-125			
Surrogate: 4-Bromofluorobenzene	*94.1*		*"*	*100*		*94.1*	*65-135*			
LCS Dup (8040304-BSD1)				Prepared & Analyzed: 04/03/18						
C6-C12 (GRO)	2170	500	ug/kg	1990		109	75-125	3.86	20	
Surrogate: 4-Bromofluorobenzene	*85.7*		*"*	*100*		*85.7*	*65-135*			

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040302 - EPA 3550B GC										
Blank (8040302-BLK1)				Prepared & Analyzed: 04/03/18						
C13-C28 (DRO)	ND	10	mg/kg							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*99.2*		*"*	*102*		*97.2*	*65-135*			
LCS (8040302-BS1)				Prepared & Analyzed: 04/03/18						
C13-C28 (DRO)	530	10	mg/kg	500		106	75-125			
Surrogate: p-Terphenyl	*94.9*		*"*	*100*		*94.9*	*65-135*			
LCS Dup (8040302-BSD1)				Prepared & Analyzed: 04/03/18						
C13-C28 (DRO)	550	10	mg/kg	500		111	75-125	4.41	20	
Surrogate: p-Terphenyl	*99.8*		*"*	*100*		*99.8*	*65-135*			

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040303 - EPA 5035 GCMS										
Blank (8040303-BLK1)				Prepared & Analyzed: 04/03/18						
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040303 - EPA 5035 GCMS										
Blank (8040303-BLK1)				Prepared & Analyzed: 04/03/18						
p-Isopropyltoluene	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Surrogate: Toluene-d8	*39.7*		*"*	*40.0*		*99.4*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*43.9*		*"*	*40.0*		*110*	*81.2-123*			
Surrogate: Dibromofluoromethane	*50.1*		*"*	*40.0*		*125*	*95.7-135*			
LCS (8040303-BS1)				Prepared & Analyzed: 04/03/18						
Chlorobenzene	107	5.0	ug/kg	100		107	75-125			
1,1-Dichloroethene	109	5.0	"	100		109	75-125			
Trichloroethene	101	5.0	"	100		101	75-125			
Benzene	105	5.0	"	100		105	75-125			
Toluene	104	5.0	"	100		104	75-125			
Surrogate: Toluene-d8	*38.7*		*"*	*40.0*		*96.7*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*43.3*		*"*	*40.0*		*108*	*81.2-123*			
Surrogate: Dibromofluoromethane	*45.6*		*"*	*40.0*		*114*	*95.7-135*			

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040303 - EPA 5035 GCMS										
LCS Dup (8040303-BSD1)				Prepared & Analyzed: 04/03/18						
Chlorobenzene	105	5.0	ug/kg	99.2		106	75-125	1.40	20	
1,1-Dichloroethene	111	5.0	"	99.2		112	75-125	1.58	20	
Trichloroethene	100	5.0	"	99.2		101	75-125	0.876	20	
Benzene	103	5.0	"	99.2		104	75-125	1.20	20	
Toluene	102	5.0	"	99.2		102	75-125	2.31	20	
Surrogate: Toluene-d8	*38.4*		*"*	*39.7*		*96.8*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*42.6*		*"*	*39.7*		*107*	*81.2-123*			
Surrogate: Dibromofluoromethane	*46.5*		*"*	*39.7*		*117*	*95.7-135*			

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/03/18 16:48

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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949-297-5020

Chain of Custody Record

Client: Essel Environmental
Address: 1035 22nd Ave, #9, Oakland, CA 94606
Phone: 510-387-4248 Fax:
Project Manager: Adam Klein

Date: 4/2/2018 Page: Of
Project Name: 4158 Fiemin Street, #18026
Collector: Adam Klein Client Project #: 18026
Batch #: 718117 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals				Laboratory ID #	Comments/Preservative	Total # of containers
EE2 - 19.5'	4/2/18	9:40 Am	Soil	Acetate Tube					X	X	X	X						01	3 VOAs	
EE 2 - 7'	4/2/18	9:10Am	Soil						X	X	X	X						02	3 VOAs	
EE 2 - 12.5'	4/2/18	9:20Am	Soil															03	Hold Sample	
EE 1 - 7'	4/2/18	12:55pm	Soil						X	X	X	X						04	3 VOAs	
EE 1 - 18.5'	4/2/18	1:15pm	Soil						X	X	X	X						05	3 VOAs	
EE 3 - 10'	4/2/18	2:40pm	Soil						X	X	X	X						06	3 VOAs	
[redacted]																				
EE 3 - 19'	4/2/18	3:00pm	Soil						X	X	X	X						07	3 VOAs	

Relinquished by: (signature)	Date / Time 4/2/18 1545	Received by: (signature)	Date / Time 15:47
Relinquished by: (signature)	Date / Time 4/2/18 17:30	Received by: (signature)	Date / Time 4.2.18 17:30
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold 4.1

Turn around time: 24 HR

Notes
Results by 4/3/18 COB

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 171026

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SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 718117

Client Name: ESSEL ENV. Project: 418 FIRMIN STREET, #18026

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: BRIAN Date/Time Courier Received: 4.2.18 / 15:47

Lab Received by: SUNNY Date/Time Lab Received: 4.2.18 / 17:30

Total number of coolers received: 0

Temperature: Cooler #1 13	°C +/- the CF (- 0.2°C) = 4.1	°C corrected temperature	
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature	
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature	
Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ **Yes** ☐ **No**	
If NO:			
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**	
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**	

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: SL 4.2.18

Comments:

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Printed: 4/3/2018 9:17:32AM

WORK ORDER

T181117

Client:	**Essel Environmental Engineering & Consulting**	**Project Manager:**	**Alexandra Huerta**
Project:	**418 Firmin Street, #18026**	**Project Number:**	**18026**

Report To:

Essel Environmental Engineering & Consulting
Adam Klein
351 California St. #615
San Francisco, CA 94104

Date Due:	04/03/18 17:00 (0 day TAT)		
Received By:	Sunny Lounethone	Date Received:	04/02/18 17:30
Logged In By:	Sunny Lounethone	Date Logged In:	04/02/18 17:54

Samples Received at: **4.1°C**

Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirme	Yes		

Analysis	Due	TAT	Expires	Comments
T181117-01 EE2-19.5 [Soil] Sampled 04/02/18 09:40 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	04/03/18 15:00	0	04/16/18 09:40	
8015 m Gas Purge	04/03/18 15:00	0	04/16/18 09:40	
8260 5035	04/03/18 15:00	0	04/16/18 09:40	+ BTEX
T181117-02 EE2-7 [Soil] Sampled 04/02/18 09:10 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	04/03/18 15:00	0	04/16/18 09:10	
8015 m Gas Purge	04/03/18 15:00	0	04/16/18 09:10	
8260 5035	04/03/18 15:00	0	04/16/18 09:10	+ BTEX
T181117-03 EE2-12.5 [Soil] Sampled 04/02/18 09:20 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T181117-04 EE1-7 [Soil] Sampled 04/02/18 12:55 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	04/03/18 15:00	0	04/16/18 12:55	
8015 m Gas Purge	04/03/18 15:00	0	04/16/18 12:55	
8260 5035	04/03/18 15:00	0	04/16/18 12:55	+ BTEX

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Printed: 4/3/2018 9:17:32AM

WORK ORDER

T181117

Client:	**Essel Environmental Engineering & Consulting**	**Project Manager:**	**Alexandra Huerta**
Project:	**418 Firmin Street, #18026**	**Project Number:**	**18026**

Analysis	Due	TAT	Expires	Comments
T181117-05 EE1-18.5 [Soil] Sampled 04/02/18 13:15 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	04/03/18 15:00	0	04/16/18 13:15	
8015 m Gas Purge	04/03/18 15:00	0	04/16/18 13:15	
8260 5035	04/03/18 15:00	0	04/16/18 13:15	+ BTEX
T181117-06 EE3-10 [Soil] Sampled 04/02/18 14:40 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	04/03/18 15:00	0	04/16/18 14:40	
8015 m Gas Purge	04/03/18 15:00	0	04/16/18 14:40	
8260 5035	04/03/18 15:00	0	04/16/18 14:40	+ BTEX
T181117-07 EE3-19 [Soil] Sampled 04/02/18 15:00 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	04/03/18 15:00	0	04/16/18 15:00	
8015 m Gas Purge	04/03/18 15:00	0	04/16/18 15:00	
8260 5035	04/03/18 15:00	0	04/16/18 15:00	+ BTEX

Reviewed By

Date

APPENDIX D

CHAIN-OF-CUSTODY FORM
AND
LABORATORY ANALYTICAL REPORT
FOR
SOIL-VAPOR SAMPLES

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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Lake Forest, California 92630
949.297.5020 Phone
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17 April 2018

Adam Klein
Essel Environmental Engineering & Consulting
351 California St. #615
San Francisco, CA 94104

RE: 418 Firmin Street, #18026

Enclosed are the results of analyses for samples received by the laboratory on 04/03/18 13:17. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Alexandra Huerta
Project Manager Assistant

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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Lake Forest, California 92630
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949.297.5027 Fax

Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EE3-SV7	T181127-01	Air	04/03/18 08:03	04/03/18 13:17
EE1-SV20	T181127-02	Air	04/03/18 08:45	04/03/18 13:17
EE1-SV10	T181127-03	Air	04/03/18 09:20	04/03/18 13:17
EE2-SV20	T181127-04	Air	04/03/18 09:47	04/03/18 13:17
EE2-SV7	T181127-05	Air	04/03/18 10:10	04/03/18 13:17
EESV1-20	T181127-06	Air	04/03/18 10:30	04/03/18 13:17
EESV1-10	T181127-07	Air	04/03/18 10:40	04/03/18 13:17

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

DETECTIONS SUMMARY

Sample ID: EE3-SV7 **Laboratory ID:** T181127-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Cyclohexane	**63000**	170	ug/m³ Air	TO-15	TO-14
Methane	**0.011**	0.00000052	%	8015M	
C6-C12 (GRO)	**116000**	7170	ug/m³ Air	TO-3/TO-14 m	

Sample ID: EE3-SV7 **Laboratory ID:** T181127-01RE1

Analyte	Result	Reporting Limit	Units	Method	Notes
Methane	**0.011**	0.00000052	%	8015M	

Sample ID: EE1-SV20 **Laboratory ID:** T181127-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Isopropyl alcohol	**11000000**	130	ug/m³ Air	TO-15	TO-14
m,p-Xylene	**53**	220	ug/m³ Air	TO-15	TO-14, J
Methane	**0.00057**	0.00000052	%	8015M	

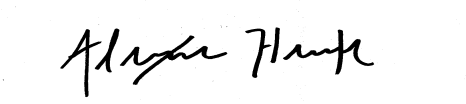
Sample ID: EE1-SV20 **Laboratory ID:** T181127-02RE1

No Results Detected

Sample ID: EE1-SV10 **Laboratory ID:** T181127-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Isopropyl alcohol	**3800000**	130	ug/m³ Air	TO-15	TO-14
Methane	**0.000095**	0.00000054	%	8015M	

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San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

Sample ID: EE1-SV10 **Laboratory ID:** T181127-03RE1

No Results Detected

Sample ID: EE2-SV20 **Laboratory ID:** T181127-04

Analyte	Result	Reporting Limit	Units	Method	Notes
Isopropyl alcohol	**1100000**	130	ug/m³ Air	TO-15	TO-14
Cyclohexane	**8100**	170	ug/m³ Air	TO-15	TO-14
Hexane	**1100**	180	ug/m³ Air	TO-15	TO-14
Toluene	**110**	190	ug/m³ Air	TO-15	TO-14, J
m,p-Xylene	**85**	220	ug/m³ Air	TO-15	TO-14, J
o-Xylene	**41**	220	ug/m³ Air	TO-15	TO-14, J
Methane	**0.0099**	0.00000054	%	8015M	
C6-C12 (GRO)	**15200**	7170	ug/m³ Air	TO-3/TO-14 m	

Sample ID: EE2-SV20 **Laboratory ID:** T181127-04RE1

Analyte	Result	Reporting Limit	Units	Method	Notes
Methane	**0.0091**	0.00000054	%	8015M	

Sample ID: EE2-SV7 **Laboratory ID:** T181127-05

Analyte	Result	Reporting Limit	Units	Method	Notes
Carbon Disulfide	**160**	160	ug/m³ Air	TO-15	TO-14
Isopropyl alcohol	**1900**	130	ug/m³ Air	TO-15	TO-14
Methane	**0.0056**	0.00000053	%	8015M	
C6-C12 (GRO)	**1900**	7170	ug/m³ Air	TO-3/TO-14 m	J

Sample ID: EE2-SV7 **Laboratory ID:** T181127-05RE1

Analyte	Result	Reporting Limit	Units	Method	Notes
Methane	**0.0035**	0.00000053	%	8015M	

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351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

Sample ID: EESV1-20 **Laboratory ID:** T181127-06

Analyte	Result	Reporting Limit	Units	Method	Notes
Isopropyl alcohol	**2900000**	130	ug/m³ Air	TO-15	TO-14
Cyclohexane	**3000**	170	ug/m³ Air	TO-15	TO-14
Hexane	**800**	180	ug/m³ Air	TO-15	TO-14
Trichloroethene	**67**	270	ug/m³ Air	TO-15	TO-14, J
Methane	**0.0075**	0.00000052	%	8015M	
C6-C12 (GRO)	**9410**	7170	ug/m³ Air	TO-3/TO-14 m	

Sample ID: EESV1-20 **Laboratory ID:** T181127-06RE1

Analyte	Result	Reporting Limit	Units	Method	Notes
Methane	**0.0087**	0.00000052	%	8015M	

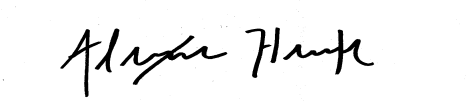
Sample ID: EESV1-10 **Laboratory ID:** T181127-07

Analyte	Result	Reporting Limit	Units	Method	Notes
Carbon Disulfide	**70**	160	ug/m³ Air	TO-15	J, TO-14
Methane	**0.0071**	0.00000054	%	8015M	
C6-C12 (GRO)	**17800**	7170	ug/m³ Air	TO-3/TO-14 m	

Sample ID: EESV1-10 **Laboratory ID:** T181127-07RE1

Analyte	Result	Reporting Limit	Units	Method	Notes
Methane	**0.0070**	0.00000054	%	8015M	

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EE3-SV7

T181127-01(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	120	ug/m³ Air	1.55	8040324	04/03/18	04/03/18	TO-15	TO-14
1,3-Butadiene	ND	0.30	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	0.22	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	0.56	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	0.15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	0.23	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	0.54	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	0.055	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	0.099	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	0.36	130	"	"	"	"	"	"	TO-14
Chloroform	ND	0.15	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	0.47	110	"	"	"	"	"	"	TO-14
Cyclohexane	**63000**	0.16	170	"	"	"	"	"	"	TO-14
Heptane	ND	0.15	210	"	"	"	"	"	"	TO-14
Hexane	ND	0.44	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	0.26	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	0.18	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	0.36	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	0.18	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	0.23	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	0.16	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	0.28	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	0.25	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	0.22	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	0.13	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	0.25	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	0.079	180	"	"	"	"	"	"	TO-14

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351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EE3-SV7

T181127-01(Air)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15										
Styrene	ND	0.19	220	ug/m³ Air	1.55	8040324	04/03/18	04/03/18	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	0.54	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	0.25	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	0.21	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	0.19	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	0.24	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	0.21	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	0.24	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	0.49	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	0.33	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	0.18	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	0.052	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	0.97	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	0.45	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	0.14	210	"	"	"	"	"	"	TO-14
Benzene	ND	0.14	160	"	"	"	"	"	"	TO-14
Toluene	ND	0.14	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	0.14	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	0.20	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	0.085	220	"	"	"	"	"	"	TO-14
Methane by GC										
Methane	**0.011**	0.000000043	0.00000052	%	1.55	8040428	04/04/18	04/05/18	8015M	
Total Volatile Organic Compounds by TO-3 (modified)										
C6-C12 (GRO)	**116000**	1790	7170	ug/m³ Air	1.55	8040325	04/03/18	04/03/18	TO-3/TO-14 m	

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EE3-SV7

T181127-01RE1(Air)

SunStar Laboratories, Inc.

Methane by GC

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methane	**0.011**	0.000000043	0.00000052	%	1.55	8040428	04/04/18	04/09/18	8015M	

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351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EE1-SV20

T181127-02(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	120	ug/m³ Air	1.55	8040324	04/03/18	04/03/18	TO-15	TO-14
1,3-Butadiene	ND	0.30	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	0.22	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	**11000000**	0.56	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	0.15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	0.23	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	0.54	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	0.055	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	0.099	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	0.36	130	"	"	"	"	"	"	TO-14
Chloroform	ND	0.15	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	0.47	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	0.16	170	"	"	"	"	"	"	TO-14
Heptane	ND	0.15	210	"	"	"	"	"	"	TO-14
Hexane	ND	0.44	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	0.26	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	0.18	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	0.36	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	0.18	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	0.23	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	0.16	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	0.28	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	0.25	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	0.22	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	0.13	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	0.25	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	0.079	180	"	"	"	"	"	"	TO-14

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351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EE1-SV20

T181127-02(Air)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15										
Styrene	ND	0.19	220	ug/m³ Air	1.55	8040324	04/03/18	04/03/18	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	0.54	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	0.25	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	0.21	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	0.19	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	0.24	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	0.21	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	0.24	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	0.49	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	0.33	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	0.18	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	0.052	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	0.97	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	0.45	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	0.14	210	"	"	"	"	"	"	TO-14
Benzene	ND	0.14	160	"	"	"	"	"	"	TO-14
Toluene	ND	0.14	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	0.14	220	"	"	"	"	"	"	TO-14
m,p-Xylene	**53**	0.20	220	"	"	"	"	"	"	TO-14, J
o-Xylene	ND	0.085	220	"	"	"	"	"	"	TO-14
Methane by GC										
Methane	**0.00057**	0.000000043	0.00000052	%	1.55	8040428	04/04/18	04/05/18	8015M	
Total Volatile Organic Compounds by TO-3 (modified)										
C6-C12 (GRO)	ND	1790	7170	ug/m³ Air	1.55	8040325	04/03/18	04/03/18	TO-3/TO-14 m	

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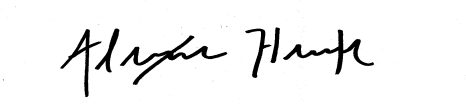
Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EE1-SV20

T181127-02RE1(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Methane by GC										
Methane	ND	0.000000043	0.00000052	%	1.55	8040428	04/04/18	04/09/18	8015M	

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EE1-SV10

T181127-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
TO-15										
Acetone	ND	0.49	120	ug/m³ Air	1.61	8040324	04/03/18	04/03/18	TO-15	TO-14
1,3-Butadiene	ND	0.30	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	0.22	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	**3800000**	0.56	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	0.15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	0.23	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	0.54	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	0.055	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	0.099	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	0.36	130	"	"	"	"	"	"	TO-14
Chloroform	ND	0.15	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	0.47	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	0.16	170	"	"	"	"	"	"	TO-14
Heptane	ND	0.15	210	"	"	"	"	"	"	TO-14
Hexane	ND	0.44	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	0.26	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	0.18	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	0.36	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	0.18	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	0.23	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	0.16	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	0.28	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	0.25	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	0.22	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	0.13	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	0.25	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	0.079	180	"	"	"	"	"	"	TO-14

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EE1-SV10

T181127-03(Air)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15										
Styrene	ND	0.19	220	ug/m³ Air	1.61	8040324	04/03/18	04/03/18	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	0.54	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	0.25	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	0.21	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	0.19	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	0.24	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	0.21	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	0.24	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	0.49	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	0.33	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	0.18	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	0.052	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	0.97	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	0.45	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	0.14	210	"	"	"	"	"	"	TO-14
Benzene	ND	0.14	160	"	"	"	"	"	"	TO-14
Toluene	ND	0.14	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	0.14	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	0.20	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	0.085	220	"	"	"	"	"	"	TO-14
Methane by GC										
Methane	**0.000095**	0.000000044	0.00000054	%	1.61	8040428	04/04/18	04/05/18	8015M	
Total Volatile Organic Compounds by TO-3 (modified)										
C6-C12 (GRO)	ND	1790	7170	ug/m³ Air	1.61	8040325	04/03/18	04/03/18	TO-3/TO-14 m	

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351 California St. #615	Project Number: 18026	**Reported:**
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EE1-SV10

T181127-03RE1(Air)

SunStar Laboratories, Inc.

Methane by GC

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methane	ND	0.000000044	0.00000054	%	1.61	8040428	04/04/18	04/09/18	8015M	

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351 California St. #615	Project Number: 18026	**Reported:**
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EE2-SV20

T181127-04(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	120	ug/m³ Air	1.63	8040324	04/03/18	04/03/18	TO-15	TO-14
1,3-Butadiene	ND	0.30	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	0.22	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	**1100000**	0.56	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	0.15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	0.23	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	0.54	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	0.055	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	0.099	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	0.36	130	"	"	"	"	"	"	TO-14
Chloroform	ND	0.15	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	0.47	110	"	"	"	"	"	"	TO-14
Cyclohexane	**8100**	0.16	170	"	"	"	"	"	"	TO-14
Heptane	ND	0.15	210	"	"	"	"	"	"	TO-14
Hexane	**1100**	0.44	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	0.26	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	0.18	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	0.36	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	0.18	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	0.23	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	0.16	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	0.28	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	0.25	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	0.22	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	0.13	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	0.25	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	0.079	180	"	"	"	"	"	"	TO-14

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351 California St. #615	Project Number: 18026	**Reported:**
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EE2-SV20

T181127-04(Air)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15										
Styrene	ND	0.19	220	ug/m³ Air	1.63	8040324	04/03/18	04/03/18	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	0.54	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	0.25	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	0.21	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	0.19	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	0.24	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	0.21	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	0.24	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	0.49	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	0.33	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	0.18	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	0.052	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	0.97	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	0.45	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	0.14	210	"	"	"	"	"	"	TO-14
Benzene	ND	0.14	160	"	"	"	"	"	"	TO-14
Toluene	**110**	0.14	190	"	"	"	"	"	"	TO-14, J
Ethylbenzene	ND	0.14	220	"	"	"	"	"	"	TO-14
m,p-Xylene	**85**	0.20	220	"	"	"	"	"	"	TO-14, J
o-Xylene	**41**	0.085	220	"	"	"	"	"	"	TO-14, J
Methane by GC										
Methane	**0.0099**	0.000000045	0.00000054	%	1.63	8040428	04/04/18	04/05/18	8015M	
Total Volatile Organic Compounds by TO-3 (modified)										
C6-C12 (GRO)	**15200**	1790	7170	ug/m³ Air	1.63	8040325	04/03/18	04/03/18	TO-3/TO-14 m	

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351 California St. #615	Project Number: 18026	**Reported:**
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EE2-SV20

T181127-04RE1(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Methane by GC										
Methane	**0.0091**	0.000000045	0.00000054	%	1.63	8040428	04/04/18	04/09/18	8015M	

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351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EE2-SV7

T181127-05(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	120	ug/m³ Air	1.59	8040324	04/03/18	04/03/18	TO-15	TO-14
1,3-Butadiene	ND	0.30	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	**160**	0.22	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	**1900**	0.56	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	0.15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	0.23	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	0.54	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	0.055	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	0.099	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	0.36	130	"	"	"	"	"	"	TO-14
Chloroform	ND	0.15	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	0.47	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	0.16	170	"	"	"	"	"	"	TO-14
Heptane	ND	0.15	210	"	"	"	"	"	"	TO-14
Hexane	ND	0.44	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	0.26	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	0.18	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	0.36	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	0.18	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	0.23	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	0.16	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	0.28	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	0.25	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	0.22	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	0.13	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	0.25	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	0.079	180	"	"	"	"	"	"	TO-14

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351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EE2-SV7

T181127-05(Air)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15										
Styrene	ND	0.19	220	ug/m³ Air	1.59	8040324	04/03/18	04/03/18	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	0.54	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	0.25	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	0.21	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	0.19	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	0.24	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	0.21	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	0.24	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	0.49	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	0.33	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	0.18	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	0.052	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	0.97	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	0.45	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	0.14	210	"	"	"	"	"	"	TO-14
Benzene	ND	0.14	160	"	"	"	"	"	"	TO-14
Toluene	ND	0.14	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	0.14	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	0.20	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	0.085	220	"	"	"	"	"	"	TO-14
Methane by GC										
Methane	**0.0056**	0.000000044	0.00000053	%	1.59	8040428	04/04/18	04/05/18	8015M	
Total Volatile Organic Compounds by TO-3 (modified)										
C6-C12 (GRO)	**1900**	1790	7170	ug/m³ Air	1.59	8040325	04/03/18	04/03/18	TO-3/TO-14 m	J

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351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EE2-SV7

T181127-05RE1(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Methane by GC										
Methane	**0.0035**	0.000000044	0.00000053	%	1.59	8040428	04/04/18	04/09/18	8015M	

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EESV1-20

T181127-06(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	120	ug/m³ Air	1.55	8040324	04/03/18	04/03/18	TO-15	TO-14
1,3-Butadiene	ND	0.30	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	0.22	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	**2900000**	0.56	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	0.15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	0.23	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	0.54	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	0.055	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	0.099	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	0.36	130	"	"	"	"	"	"	TO-14
Chloroform	ND	0.15	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	0.47	110	"	"	"	"	"	"	TO-14
Cyclohexane	**3000**	0.16	170	"	"	"	"	"	"	TO-14
Heptane	ND	0.15	210	"	"	"	"	"	"	TO-14
Hexane	**800**	0.44	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	0.26	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	0.18	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	0.36	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	0.18	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	0.23	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	0.16	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	0.28	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	0.25	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	0.22	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	0.13	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	0.25	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	0.079	180	"	"	"	"	"	"	TO-14

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EESV1-20

T181127-06(Air)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15										
Styrene	ND	0.19	220	ug/m³ Air	1.55	8040324	04/03/18	04/03/18	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	0.54	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	0.25	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	0.21	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	0.19	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	0.24	280	"	"	"	"	"	"	TO-14
Trichloroethene	**67**	0.21	270	"	"	"	"	"	"	TO-14, J
Trichlorofluoromethane	ND	0.24	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	0.49	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	0.33	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	0.18	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	0.052	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	0.97	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	0.45	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	0.14	210	"	"	"	"	"	"	TO-14
Benzene	ND	0.14	160	"	"	"	"	"	"	TO-14
Toluene	ND	0.14	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	0.14	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	0.20	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	0.085	220	"	"	"	"	"	"	TO-14
Methane by GC										
Methane	**0.0075**	0.000000043	0.00000052	%	1.55	8040428	04/04/18	04/05/18	8015M	
Total Volatile Organic Compounds by TO-3 (modified)										
C6-C12 (GRO)	**9410**	1790	7170	ug/m³ Air	1.55	8040325	04/03/18	04/03/18	TO-3/TO-14 m	

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EESV1-20

T181127-06RE1(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Methane by GC										
Methane	**0.0087**	0.000000043	0.00000052	%	1.55	8040428	04/04/18	04/09/18	8015M	

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EESV1-10

T181127-07(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	0.49	120	ug/m³ Air	1.63	8040324	04/03/18	04/03/18	TO-15	TO-14
1,3-Butadiene	ND	0.30	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	**70**	0.22	160	"	"	"	"	"	"	J, TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	0.56	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	0.15	340	"	"	"	"	"	"	TO-14
Bromoform	ND	0.23	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	0.54	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	0.055	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	0.099	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	0.36	130	"	"	"	"	"	"	TO-14
Chloroform	ND	0.15	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	0.47	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	0.16	170	"	"	"	"	"	"	TO-14
Heptane	ND	0.15	210	"	"	"	"	"	"	TO-14
Hexane	ND	0.44	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	0.26	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	0.18	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	0.36	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	0.18	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	0.23	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	0.16	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	0.28	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	0.25	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	0.22	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	0.13	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	0.25	250	"	"	"	"	"	"	TO-14
Methylene chloride	ND	0.079	180	"	"	"	"	"	"	TO-14

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EESV1-10

T181127-07(Air)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15										
Styrene	ND	0.19	220	ug/m³ Air	1.63	8040324	04/03/18	04/03/18	TO-15	TO-14
1,1,2,2-Tetrachloroethane	ND	0.54	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	0.25	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	0.21	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	0.19	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	0.24	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	0.21	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	0.24	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	0.49	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	0.33	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	0.18	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	0.052	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	0.97	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	0.45	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	0.14	210	"	"	"	"	"	"	TO-14
Benzene	ND	0.14	160	"	"	"	"	"	"	TO-14
Toluene	ND	0.14	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	0.14	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	0.20	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	0.085	220	"	"	"	"	"	"	TO-14
Methane by GC										
Methane	**0.0071**	0.000000045	0.00000054	%	1.63	8040428	04/04/18	04/05/18	8015M	
Total Volatile Organic Compounds by TO-3 (modified)										
C6-C12 (GRO)	**17800**	1790	7170	ug/m³ Air	1.63	8040325	04/03/18	04/03/18	TO-3/TO-14 m	

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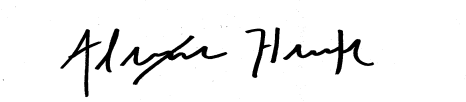
Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

EESV1-10

T181127-07RE1(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Methane by GC										
Methane	**0.0070**	0.000000045	0.00000054	%	1.63	8040428	04/04/18	04/09/18	8015M	

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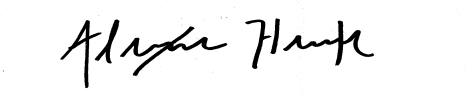
Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040324 - Canister Analysis											
Blank (8040324-BLK1)				Prepared & Analyzed: 04/03/18							
Acetone	ND	0.49	120	ug/m³ Air							TO-14
1,3-Butadiene	ND	0.30	110	"							TO-14
Carbon Disulfide	ND	0.22	160	"							TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	390	"							TO-14
Isopropyl alcohol	ND	0.56	130	"							TO-14
Bromodichloromethane	ND	0.15	340	"							TO-14
Bromoform	ND	0.23	530	"							TO-14
Bromomethane	ND	0.54	200	"							TO-14
Carbon tetrachloride	ND	0.055	320	"							TO-14
Chlorobenzene	ND	0.099	230	"							TO-14
Chloroethane	ND	0.36	130	"							TO-14
Chloroform	ND	0.15	250	"							TO-14
Chloromethane	ND	0.47	110	"							TO-14
Cyclohexane	ND	0.16	170	"							TO-14
Heptane	ND	0.15	210	"							TO-14
Hexane	ND	0.44	180	"							TO-14
Dibromochloromethane	ND	0.26	430	"							TO-14
1,2-Dibromoethane (EDB)	ND	0.18	390	"							TO-14
1,2-Dichlorobenzene	ND	0.36	310	"							TO-14
1,3-Dichlorobenzene	ND	0.44	310	"							TO-14
1,4-Dichlorobenzene	ND	0.44	310	"							TO-14
Dichlorodifluoromethane	ND	0.18	250	"							TO-14
1,1-Dichloroethane	ND	0.23	210	"							TO-14
1,2-Dichloroethane	ND	0.16	210	"							TO-14
1,1-Dichloroethene	ND	0.28	200	"							TO-14
cis-1,2-Dichloroethene	ND	0.25	200	"							TO-14
trans-1,2-Dichloroethene	ND	0.22	200	"							TO-14

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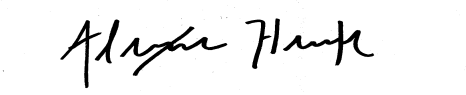
Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040324 - Canister Analysis											
Blank (8040324-BLK1)					Prepared & Analyzed: 04/03/18						
1,2-Dichloropropane	ND	0.13	240	ug/m³ Air							TO-14
cis-1,3-Dichloropropene	ND	0.21	230	"							TO-14
trans-1,3-Dichloropropene	ND	0.21	230	"							TO-14
4-Ethyltoluene	ND	0.25	250	"							TO-14
Methylene chloride	ND	0.079	180	"							TO-14
Styrene	ND	0.19	220	"							TO-14
1,1,2,2-Tetrachloroethane	ND	0.54	350	"							TO-14
Tetrahydrofuran	ND	0.25	150	"							TO-14
Tetrachloroethene	ND	0.21	350	"							TO-14
1,1,2-Trichloroethane	ND	0.19	280	"							TO-14
1,1,1-Trichloroethane	ND	0.24	280	"							TO-14
Trichloroethene	ND	0.21	270	"							TO-14
Trichlorofluoromethane	ND	0.24	290	"							TO-14
1,3,5-Trimethylbenzene	ND	0.49	250	"							TO-14
1,2,4-Trimethylbenzene	ND	0.33	250	"							TO-14
Vinyl acetate	ND	0.18	180	"							TO-14
Vinyl chloride	ND	0.052	130	"							TO-14
1,4-Dioxane	ND	0.97	180	"							TO-14
2-Butanone (MEK)	ND	0.45	150	"							TO-14
Methyl isobutyl ketone	ND	0.14	210	"							TO-14
Benzene	ND	0.14	160	"							TO-14
Toluene	ND	0.14	190	"							TO-14
Ethylbenzene	ND	0.14	220	"							TO-14
m,p-Xylene	ND	0.20	220	"							TO-14
o-Xylene	ND	0.085	220	"							TO-14
Duplicate (8040324-DUP1)			**Source: T181127-01**		Prepared & Analyzed: 04/03/18						
Acetone	ND	0.49	120	ug/m³ Air		ND				30	TO-14

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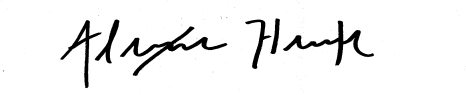
Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040324 - Canister Analysis											
Duplicate (8040324-DUP1)		**Source: T181127-01**			Prepared & Analyzed: 04/03/18						
1,3-Butadiene	ND	0.30	110	ug/m³ Air		ND				30	TO-14
Carbon Disulfide	28.8	0.22	160	"		ND				30	TO-14, J
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	390	"		ND				30	TO-14
Isopropyl alcohol	ND	0.56	130	"		ND				30	TO-14
Bromodichloromethane	ND	0.15	340	"		ND				30	TO-14
Bromoform	ND	0.23	530	"		ND				30	TO-14
Bromomethane	ND	0.54	200	"		ND				30	TO-14
Carbon tetrachloride	ND	0.055	320	"		ND				30	TO-14
Chlorobenzene	ND	0.099	230	"		ND				30	TO-14
Chloroethane	ND	0.36	130	"		ND				30	TO-14
Chloroform	ND	0.15	250	"		ND				30	TO-14
Chloromethane	ND	0.47	110	"		ND				30	TO-14
Cyclohexane	69000	0.16	170	"		62600			9.65	30	TO-14
Heptane	ND	0.15	210	"		ND				30	TO-14
Hexane	ND	0.44	180	"		ND				30	TO-14
Dibromochloromethane	ND	0.26	430	"		ND				30	TO-14
1,2-Dibromoethane (EDB)	ND	0.18	390	"		ND				30	TO-14
1,2-Dichlorobenzene	ND	0.36	310	"		ND				30	TO-14
1,3-Dichlorobenzene	ND	0.44	310	"		ND				30	TO-14
1,4-Dichlorobenzene	ND	0.44	310	"		ND				30	TO-14
Dichlorodifluoromethane	ND	0.18	250	"		ND				30	TO-14
1,1-Dichloroethane	ND	0.23	210	"		ND				30	TO-14
1,2-Dichloroethane	ND	0.16	210	"		ND				30	TO-14
1,1-Dichloroethene	ND	0.28	200	"		ND				30	TO-14
cis-1,2-Dichloroethene	ND	0.25	200	"		ND				30	TO-14
trans-1,2-Dichloroethene	ND	0.22	200	"		ND				30	TO-14
1,2-Dichloropropane	ND	0.13	240	"		ND				30	TO-14

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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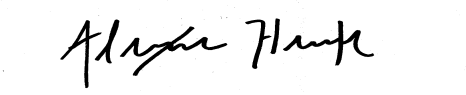
Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040324 - Canister Analysis											
Duplicate (8040324-DUP1)		**Source: T181127-01**		Prepared & Analyzed: 04/03/18							
cis-1,3-Dichloropropene	ND	0.21	230	ug/m³ Air		ND				30	TO-14
trans-1,3-Dichloropropene	ND	0.21	230	"		ND				30	TO-14
4-Ethyltoluene	ND	0.25	250	"		ND				30	TO-14
Methylene chloride	ND	0.079	180	"		ND				30	TO-14
Styrene	ND	0.19	220	"		ND				30	TO-14
1,1,2,2-Tetrachloroethane	ND	0.54	350	"		ND				30	TO-14
Tetrahydrofuran	ND	0.25	150	"		ND				30	TO-14
Tetrachloroethene	ND	0.21	350	"		ND				30	TO-14
1,1,2-Trichloroethane	ND	0.19	280	"		ND				30	TO-14
1,1,1-Trichloroethane	ND	0.24	280	"		ND				30	TO-14
Trichloroethene	ND	0.21	270	"		ND				30	TO-14
Trichlorofluoromethane	ND	0.24	290	"		ND				30	TO-14
1,3,5-Trimethylbenzene	ND	0.49	250	"		ND				30	TO-14
1,2,4-Trimethylbenzene	ND	0.33	250	"		ND				30	TO-14
Vinyl acetate	ND	0.18	180	"		ND				30	TO-14
Vinyl chloride	ND	0.052	130	"		ND				30	TO-14
1,4-Dioxane	ND	0.97	180	"		ND				30	TO-14
2-Butanone (MEK)	ND	0.45	150	"		ND				30	TO-14
Methyl isobutyl ketone	ND	0.14	210	"		ND				30	TO-14
Benzene	ND	0.14	160	"		ND				30	TO-14
Toluene	ND	0.14	190	"		ND				30	TO-14
Ethylbenzene	ND	0.14	220	"		ND				30	TO-14
m,p-Xylene	ND	0.20	220	"		ND				30	TO-14
o-Xylene	ND	0.085	220	"		ND				30	TO-14

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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

Methane by GC - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040428 - EPA 5030 GC											
Blank (8040428-BLK1)					Prepared: 04/04/18 Analyzed: 04/05/18						
Methane	ND	0.000000028	0.00000033	%							
Duplicate (8040428-DUP1)			**Source: T181127-01**		Prepared: 04/04/18 Analyzed: 04/05/18						
Methane	0.00899	0.000000043	0.00000052	%		0.0107			17.1	20	

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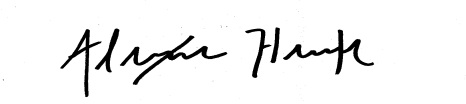
Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

Total Volatile Organic Compounds by TO-3 (modified) - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040325 - Canister Analysis											
Blank (8040325-BLK1)					Prepared: 04/03/18 Analyzed: 04/04/18						
C6-C12 (GRO)	ND	1790	7170	ug/m³ Air							
Duplicate (8040325-DUP1)		**Source: T181127-01**			Prepared: 04/03/18 Analyzed: 04/04/18						
C6-C12 (GRO)	129000	1790	7170	ug/m³ Air		116000			10.6	30	

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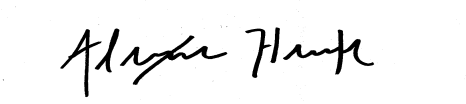
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Essel Environmental Engineering & Consulting	Project: 418 Firmin Street, #18026	
351 California St. #615	Project Number: 18026	**Reported:**
San Francisco CA, 94104	Project Manager: Adam Klein	04/17/18 14:38

Notes and Definitions

TO-14	TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
J	Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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AIR LABORATORY

Chain of Custody Record

SunStar Laboratories, Inc.
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25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Essel Environmental
Address: 1635 22nd Ave. Suite 9
Phone: 510-387-4248 Fax:
Project Manager: Adam Klich

Date: 4/3/2018 Page: 1 Of 1
Project Name: Firmin Street
Collector: Adam Klich Client Project #: 18026
Batch #: T181127 EDF #:

Sample ID	Date Sampled	Start Time	Finish Time	Sample Type : Soil Gas / Indoor Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3	TO-14	TO-15	8015m Methane	8015m Gasoline	Fixed Gases by TCD		Summa Can # / Comments	Laboratory ID #
EE3-SV7	4/3/18	803	807		X	-30	-2	X		X	X				SSAT-0854	01
EE1-SV10 SV20	4/3/18	845	851		X	-30	-2	X		X	X				SSAT-0361	02
EE1-SV10	4/3/18	920	926		X	-30	-4	X		X	X				SSAT-0870	03
~~EE2-SV20~~	~~4/3/18~~	~~930~~													~~SSAT-0387~~	
EE2-SV20	4/3/18	947	954		X	-30	-4	X		X	X				SSAT-0387	04
~~EE2-SV10~~	~~4/3/18~~	~~1001~~			X	-30										
EE2-SV10 SV7	4/3/18	1010	1017		X	-30	-2	X		X	X				SSAT-0183	05
EESV1-20	4/3/18	1030	1039		X	-30	-4	X		X	X				SSAT-0155	06
EESV1-10	4/3/18	1044	1052		X	-30	-4	X		X	X				SSAT-0014	07

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	4/3/18 1140		4-3-18 1140
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	4-3-18 1317		4-3-18 13:17
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Turn around time: 24hr

Notes
Tracer Chemical was Isopropyl Alcohol

* TO-15 SIM analysis available upon prior notification. **(Precertified Summa cans needed)**

COCAL 165588

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SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T181127

Client Name: Essel Environmental Project: Firmin Street

Delivered by: ☐ **Client** ☒ **SunStar Courier** ☐ **GSO** ☐ **FedEx** ☐ **Other**

If Courier, Received by: Dan Date/Time Courier Received: 4-3-18 11:40

Lab Received by: Sunny Date/Time Lab Received: 4-3-18 13:17

Total number of coolers received: 0

Temperature: Cooler #1	- °C +/- the CF (- 0.2°C) =	-	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =		°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers) — Within criteria? ☐ **Yes** ☐ **No**

If NO:

- Samples received on ice? ☐ Yes ☐ **No → Complete Non-Conformance Sheet**
- If on ice, samples received same day collected? ☐ Yes → Acceptable ☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: DM 4-3-18

Comments:

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

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T181127

Project Name: FIRMIN STREET (#18026)					KATHERINE
Company: ESSEL					X
Name: ADAM KLEIN					
Item		Quantity		Unit	
2 oz Jars 24/CS					
4 oz Jars 24/CS					
8 oz Jars 12/CS					
40 ml unpreserved VOAs 100/box					
40 ml HCL-preserved VOAs 72/box					
250 ml Poly 24/CS					
1 Liter Poly 12/CS					
500 ml Poly 16/CS					
500 ml Amber Bottle Wide 12/CS					
1 Liter Amber Bottle 12/CS					
1 Gallon Poly 4/box					
5035 kits:(2)Sodium Bisulfate VOAs 72/box		18		EA	
	(1) Methanol VOA 72/box	9		EA	
	(1)Syringe 50/pack	9		EA	
Lock-N-Load Handle 1/pack					
Tedlar Bags 10/pack					
Sub Slab Insert w/ washer & N/F					
Soil Gas SS 16" Drop Tubes					
Gas Extraction Fittings					
Soil Gas Filters					
		# Sent	Used	Unused	Unreturned
Batch Certified Summa Canisters	400cc				
	1L	10 (10-PURGE)	8 (8-PURGE)	2 (2-PURGE)	
	3L				
	6L				
Individually Certified Summa Canisters	400cc				
	1L	8	7	1	
	3L				
	6L				
150/63 Manifolds, Var. Sampler, etc. Calibrated Correctly - Gauge Reads at 0					X
Manifolds: Inst. Sampler, Variable Sampler					
		8-MANIFOLDS (150)		CHARGE FOR 7	
Swagelok Fittings: Nuts/Ferrules, Ts		9-NUTS/FERRULES		CHARGE FOR 9	
Cooler (Sm, Med, Lrg) Number & Quantity					
Other: Poly Tube, Valves,Silicon Tape, etc.					
Prepared By: SL		Date: 3-26-18			
Reviewed By:		Date:			

949-297-5020

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25712 Commercentre Dr, Lake Forest CA 92630

Asset Check-In Receipt

SunStar Laboratories Inc.

T181127

Check-In Date: 4/3/2018

User Name: Marteski, Dan

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0001-P	1000cc: 1000cc Summa	0001	Sunstar Labs, Tustin Air Lab	Essel-Adam	Adam Klein
0014	1000cc: 1000cc Summa	0014	Sunstar Labs, Tustin Air Lab	Essel-Adam	Adam Klein
0022-P-unused	1000cc: 1000cc Summa	0022	Sunstar Labs, Tustin Air Lab	Essel-Adam	Adam Klein
0123-P	1000cc: 1000cc Summa	0123	Sunstar Labs, Tustin Air Lab	Essel-Adam	Adam Klein
0142-P	1000cc: 1000cc Summa	0142	Sunstar Labs, Tustin Air Lab	Essel-Adam	Adam Klein
0155	1000cc: 1000cc Summa	0155	Sunstar Labs, Tustin Air Lab	Essel-Adam	Adam Klein
0183	1000cc: 1000cc Summa	0183	Sunstar Labs, Tustin Air Lab	Essel-Adam	Adam Klein
0218-P	1000cc: 1000cc Summa	0218	Sunstar Labs, Tustin Air Lab	Essel-Adam	Adam Klein
0222-P	1000cc: 1000cc Summa	0222	Sunstar Labs, Tustin Air Lab	Essel-Adam	Adam Klein
0329-P	1000cc: 1000cc Summa	0329	Sunstar Labs, Lake Forest Air Lab	Essel-Adam	Adam Klein
0361	1000cc: 1000cc Summa	0361	Sunstar Labs, Lake Forest Air Lab	Essel-Adam	Adam Klein
0387	1000cc: 1000cc Summa	0387	Sunstar Labs, Lake Forest Air Lab	Essel-Adam	Adam Klein
0839-P-unused	1000cc: 1000cc Summa	0839	Sunstar Labs, SunStar Labs - South	Essel-Adam	Adam Klein
0854	1000cc: 1000cc Summa	0854	Sunstar Labs, SunStar Labs - South	Essel-Adam	Adam Klein
0870	1000cc: 1000cc Summa	0870	Sunstar Labs, SunStar Labs - South	Essel-Adam	Adam Klein
2083	Chameleon-150: Chameleon 150 Manifold	2083	Sunstar Labs, SunStar Labs - South	Essel-Adam	Adam Klein
2089	Chameleon-150: Chameleon 150 Manifold	2089	Sunstar Labs, SunStar Labs - South	Essel-Adam	Adam Klein
2095	Chameleon-150: Chameleon 150 Manifold	2095	Sunstar Labs, SunStar Labs - South	Essel-Adam	Adam Klein
2102	Chameleon-150: Chameleon 150 Manifold	2102	Sunstar Labs, SunStar Labs - South	Essel-Adam	Adam Klein
2103	Chameleon-150: Chameleon 150 Manifold	2103	Sunstar Labs, SunStar Labs - South	Essel-Adam	Adam Klein
2104	Chameleon-150: Chameleon 150 Manifold	2104	Sunstar Labs, SunStar Labs - South	Essel-Adam	Adam Klein

Asset Check-In Receipt

SunStar Laboratories Inc.

T181127

Check-In Date: 4/3/2018

User Name: Marteski, Dan

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
2107	Chameleon-150: Chameleon 150 Manifold	2107	Sunstar Labs, SunStar Labs - South	Essel-Adam	Adam Klein
2113	Chameleon-150: Chameleon 150 Manifold	2113	Sunstar Labs, SunStar Labs - South	Essel-Adam	Adam Klein
649-P	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Essel-Adam	Adam Klein
666 - unused	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Essel-Adam	Adam Klein
112-P	1000cc: 1000cc Summa				

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WORK ORDER

T181127

Client:	**Essel Environmental Engineering & Consulting**	**Project Manager:**	**Alexandra Huerta**
Project:	**418 Firmin Street, #18026**	**Project Number:**	**18026**

Report To:

Essel Environmental Engineering & Consulting
Adam Klein
351 California St. #615
San Francisco, CA 94104

Date Due:	04/04/18 17:00 (1 day TAT)		
Received By:	Sunny Lounethone	Date Received:	04/03/18 13:17
Logged In By:	Dan Marteski	Date Logged In:	04/03/18 13:55

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirme	No		

Analysis	Due	TAT	Expires	Comments
T181127-01 EE3-SV7 [Air] Sampled 04/03/18 08:03 (GMT-08:00) Pacific Time (US &				
8015m Methane	04/04/18 15:00	1	04/06/18 08:03	+ IPA (tracer gas)
TO-15	04/04/18 15:00	1	05/03/18 08:03	+ IPA (tracer gas)
TO-3	04/04/18 15:00	1	05/03/18 08:03	+ IPA (tracer gas)
T181127-02 EE1-SV20 [Air] Sampled 04/03/18 08:45 (GMT-08:00) Pacific Time (US &				
8015m Methane	04/04/18 15:00	1	04/06/18 08:45	+ IPA (tracer gas)
TO-15	04/04/18 15:00	1	05/03/18 08:45	+ IPA (tracer gas)
TO-3	04/04/18 15:00	1	05/03/18 08:45	+ IPA (tracer gas)
T181127-03 EE1-SV10 [Air] Sampled 04/03/18 09:20 (GMT-08:00) Pacific Time (US &				
8015m Methane	04/04/18 15:00	1	04/06/18 09:20	+ IPA (tracer gas)
TO-15	04/04/18 15:00	1	05/03/18 09:20	+ IPA (tracer gas)
TO-3	04/04/18 15:00	1	05/03/18 09:20	+ IPA (tracer gas)
T181127-04 EE2-SV20 [Air] Sampled 04/03/18 09:47 (GMT-08:00) Pacific Time (US &				
8015m Methane	04/04/18 15:00	1	04/06/18 09:47	+ IPA (tracer gas)
TO-15	04/04/18 15:00	1	05/03/18 09:47	+ IPA (tracer gas)
TO-3	04/04/18 15:00	1	05/03/18 09:47	+ IPA (tracer gas)

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WORK ORDER

T181127

Client:	**Essel Environmental Engineering & Consulting**	**Project Manager:**	**Alexandra Huerta**
Project:	**418 Firmin Street, #18026**	**Project Number:**	**18026**

Analysis	Due	TAT	Expires	Comments
T181127-05 EE2-SV7 [Air] Sampled 04/03/18 10:10 (GMT-08:00) Pacific Time (US &				
8015m Methane	04/04/18 15:00	1	04/06/18 10:10	+ IPA (tracer gas)
TO-15	04/04/18 15:00	1	05/03/18 10:10	+ IPA (tracer gas)
TO-3	04/04/18 15:00	1	05/03/18 10:10	+ IPA (tracer gas)
T181127-06 EESV1-20 [Air] Sampled 04/03/18 10:30 (GMT-08:00) Pacific Time (US &				
8015m Methane	04/04/18 15:00	1	04/06/18 10:30	+ IPA (tracer gas)
TO-15	04/04/18 15:00	1	05/03/18 10:30	+ IPA (tracer gas)
TO-3	04/04/18 15:00	1	05/03/18 10:30	+ IPA (tracer gas)
T181127-07 EESV1-10 [Air] Sampled 04/03/18 10:40 (GMT-08:00) Pacific Time (US &				
8015m Methane	04/04/18 15:00	1	04/06/18 10:40	+ IPA (tracer gas)
TO-15	04/04/18 15:00	1	05/03/18 10:40	+ IPA (tracer gas)
TO-3	04/04/18 15:00	1	05/03/18 10:40	+ IPA (tracer gas)

Reviewed By

Date

APPENDIX E

LIMITATIONS

LIMITATIONS

The environmental investigation described in this report has been conducted in accordance with current regulatory guidance and the standards of environmental and geological practice performed in the general project area. No warranty, expressed or implied, is made regarding the professional opinions presented in the report.

Essel Environmental Consulting's descriptions, conclusions, and recommendations in the report, with respect to environmental conditions, are based on a limited number of sampling points and chemical analyses. Field observations made during the investigation and the samples collected and submitted for testing are considered to be representative of the area evaluated. Subsurface soil and ground-water conditions; however, may vary between and beyond sampling or observation points. Additional work, including further subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation.

The interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. Chemical testing was conducted by an analytical laboratory that is certified by the state of California to perform the analyses requested for this investigation. Essel Environmental Consulting is not associated with the laboratory that performed the analyses and claims no responsibility for any inaccuracy in laboratory results.

This document is intended to be used in its entirety. No portion of the document, by itself, is designed to completely represent every aspect of the project. Essel Environmental Consulting should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report, furthermore, is intended for the exclusive use by the client. Any use of the contents of this report by parties other than the client is undertaken at those parties' sole risk.

REPORT
ADDITIONAL SUBSURFACE ENVIRONMENTAL INVESTIGATION

418, 426, AND 430 FIRMIN STREET
LOS ANGELES, CALIFORNIA 90026

PROJECT NO. 18026

Prepared for:

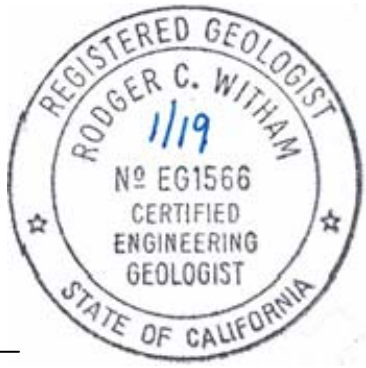
Mr. Ted Handel
Decro Corporation
3431 Wesley Street, Suite F
Culver City, California 90232

Prepared by:

Essel Environmental Consulting
1035 22nd Avenue, Suite 9
Oakland, California 94606
(800) 595-7616

December 14, 2018

REPORT
ADDITIONAL
SUBSURFACE ENVIRONMENTAL INVESTIGATION
418, 426, and 430 FIRMIN STREET
LOS ANGELES, CALIFORNIA 90026



Rodger C. Witham, P.G., C.E.G.
Senior Geologist

Nik Lahiri
Principal

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REPORT
ADDITIONAL
SUBSURFACE ENVIRONMENTAL INVESTIGATION
418, 426, and 430 FIRMIN STREET
LOS ANGELES, CALIFORNIA 90026

1.0 INTRODUCTION

At the request of Mr. Ted Handel of Decro Corporation, Essel Environmental Engineering & Consulting (Essel) performed additional subsurface environmental investigation at 418, 426, and 430 Firmin Street in Los Angeles, California. The purpose of the investigation was to evaluate the presence of historic oil wells on the site, further delineate the extent and magnitude of petroleum hydrocarbons in soil, delineate the dimensions of an abandoned oil pit encountered in a boring advanced near the southern corner of the site, and further assess the presence of petroleum hydrocarbons and methane in soil vapor. The scope of work included performing a geophysical survey at the site, advancing nine borings to collect soil samples for laboratory analyses, and advancing three small-diameter borings to install temporary probes and collect soil-vapor samples for laboratory analysis.

1.1 Site Location and Description

The irregular-shaped site is located on the southeast side of Firmin Street, approximately 106 feet southwest of West Temple Street. The property encompasses approximately 0.4-acre and consists of assessor's parcel numbers 5160-022-006, 5160-022-007, and 5160-022-012, which correspond to the respective addresses of 430, 426, and 418 Firmin Street. The southwestern (418 Firmin Street) and northeastern (430 Firmin Street) parcels are occupied by single-family dwellings and detached garages, which at the time this investigation, were unoccupied and secured against public access. Essel understands that the dwelling at 430 Firmin Street is considered a historic structure. The remaining portions of these two parcels consist of concrete paved driveways and walkways and landscaped areas. The central parcel (426 Firmin Street) is a vegetated vacant lot. The three parcels are secured along Firmin Street with a chain-link fence. Adjacent properties are occupied by single- and multi-family residential structures. The ground surface slopes downward from southwest to northeast with surface elevations ranging from 436 to 419 feet above mean sea level. Plate 1 shows the location of the site relative to surrounding urban features and Plate 2 shows site features.

1.2 Previous Environmental Work

1.2.1 EFI Global, Inc.

Phase I Environmental Site Assessment

EFI Global, Inc. (EFI Global, 2017a) performed a Phase I Environmental Site Assessment (ESA) of the site in May and June 2017. Available historical records presented in the Phase I ESA show

that single-family residences have occupied the southwestern parcel at 418 Firmin Street from sometime before 1890 to the present time. The central parcel, at 426 Firmin Street, contained small outbuildings in 1890 and 1894 and a small residence size structure (labeled vacant) in 1906. This parcel appears to have been vacant from at least 1927 to mid-1947, was occupied by a single-family residence from mid-1947 until 1983, and has been vacant land since 1983. The northeastern parcel at 430 Firmin Street was occupied by small outbuildings associated with a nearby residential dwelling in 1890 and has been occupied by a single-family dwelling since 1894. EFI Global identified two historic oil wells at the site, based on review of California Division of Oil, Gas & Geothermal Resources (DOGGR) maps. Online DOGGR records show one oil well, identified as H. Rogalske well 1-1, was discovered beneath a driveway at 418 Firmin Street and this well was plugged and abandoned in May 1941. A second oil well, identified as H. Rogalske well 2A, appears to have been located on the 426 Firmin Street parcel and no DOGGR records are available for this well. Plate 2 shows the approximate locations of the two wells.

EFI Global did not find evidence of previous or current hazardous materials storage or use at the site, indicated that the site was not listed on any regulatory agency environmental databases researched, and stated that applicable regulatory agencies contacted did not have environmental records pertaining to the site. EFI Global indicated that no adjacent or nearby properties posed a significant threat to the site as a result of releases of hazardous substances. The site was identified to be within a methane zone designated on a map prepared by the Los Angeles Department of Public Works and EFI Global indicated that testing for the presence of methane and installation of methane mitigation systems might be necessary before new construction takes place. EFI Global concluded that the historic presence of oil wells and the typical oil field exploration and production activities associated with the wells represented a recognized environmental condition at the site and recommended that a Phase II ESA be performed.

Phase II Environmental Site Assessment

EFI Global (2017b) performed a Phase II ESA at the site in October 2017. The scope of work included conducting a geophysical survey and advancing six borings to collect soil samples for laboratory analysis. In the report, EFI Global indicated that the site and vicinity were historically used for oil production activities and that DOGGR maps showed several historic oil wells on the site and adjacent properties. These wells were located in the Los Angeles City oil field.

The geophysical survey was performed to attempt to identify the locations of the historic oil wells. A ground penetrating radar scan was used over much of the property and electromagnetic equipment was used to scan the central 426 Firmin Street parcel. The results of the survey showed an anomaly (low conductivity) at a depth of 4 feet below the ground surface at the southern corner of 426 Firmin Street. EFI Global indicated the anomaly was close to historic oil well H. Rogalske 3, shown on DOGGR maps to be located on an east-adjacent property, and inferred the anomaly might represent the historic oil well. No other anomalies were identified on the property. EFI Global cautioned that the presence of structures, reinforced concrete, and metal fences at 418 and 430 Firmin Street might interfere with the geophysical readings to mask potential anomalies. Plate 2 shows the approximate location of well H. Rogalske 3 as plotted by EFI Global from the geophysical anomaly data. Plate 2 also shows, based on DOGGR maps, the approximate locations of on-site wells H. Rogalske 1-1 and 2A and off-site historic oil wells H. H. Harrison 1 and Charles V. Hall 8 located adjacent to the southeastern and northwestern sides of the site, respectively. Except for H. Rogalske well 1-1, no online records are available for the wells and DOGGR lists the well statuses as buried-idle.

Borings B1 through B6 were advanced to depths of 15 to 25 feet below the ground surface to evaluate the potential impact from historic oil field operations. The borings were advanced at locations assumed to be in proximity to the on-site and off-site historic oil wells (see Plate 2). Field evidence of petroleum contaminants, including photoionization detector (PID) readings, noticeable petroleum odors, and gray discolored soil was noted in boring B2 between 2 and 25 feet below grade, boring B3 between 10 and 20 feet below grade, and boring B4 between 10 and 15 feet below the ground surface. These borings were advanced along the southeastern property line of the site. No field evidence of petroleum hydrocarbon impact was noted in borings B1, B5, and B6, which were advanced in the central and northwestern areas of the site.

Eight soil samples collected from the borings at various depths of 2, 5, 10, 15, 20 and 25 feet below the ground surface were analyzed for total petroleum hydrocarbons carbon chain and the 17 metals and metalloids identified as inorganic persistent and bioaccumulative toxic substances in Title 22 of the California Code of Regulations (i.e., Title 22 metals). One soil sample, collected at a depth of 2 feet below the ground surface in boring B2, was also analyzed for volatile organic compounds (VOCs); this sample contained the highest field PID reading.

Laboratory analytical results indicated total petroleum hydrocarbons in the gasoline, diesel, and motor oil ranges were detected in all soil samples, except the soil sample collected at 5 feet below the ground surface in northern boring B6. Detected concentrations ranged from 14 to 11,500 milligrams per kilogram (mg/kg). EFI Global compared these concentrations to Los Angeles Regional Water Quality Control Board maximum soil screening levels, which were developed to assess the potential for migration of contaminants in soil to the ground water. A number of the total petroleum hydrocarbon concentrations were greater than the corresponding maximum soil screening levels, based on an assumed depth to ground water of 30 to 40 feet below the ground surface. Laboratory analytical results showed several petroleum-hydrocarbon-related VOCs in the 2-foot-depth sample collected from boring B2 with benzene and ethylbenzene reportedly detected at concentrations greater than corresponding screening levels for direct exposure to soil. Table 1 presents the laboratory analytical results for total petroleum hydrocarbons and VOCs in soil samples collected by EFI Global. In this table, Essel includes the gasoline results reported by EFI Global in a diesel column, because the compounds included in the laboratory analysis fall predominantly within the diesel range. The table also shows that the above-mentioned benzene and ethylbenzene concentrations detected in boring B2 are less than direct exposure screening levels.

The results of analyses of soil samples for the Title 22 metals showed that, except for arsenic and chromium, none of the metals/metalloids were found at concentrations greater than California Department of Toxic Substances Control (DTSC) or United States Environmental Protection Agency (USEPA) screening levels for direct exposure to soil. Arsenic concentrations were compared to a DTSC-developed naturally occurring (i.e., background) concentration for southern California of 12 mg/kg. Only one soil sample, collected at a depth of 20 feet in boring B3, contained arsenic at a concentration slightly greater than this background level. Chromium concentrations were compared to and found to be well below a background concentration developed by the U.S. Air Force. Table 2 presents the laboratory analytical results for the Title 22 metals in soil samples collected by EFI Global.

EFI Global concluded that the Title 22 metals (including arsenic and chromium) detected in the soil samples were at concentrations that were not of concern with respect to risk to human health; that a potential threat to ground water from the concentrations of total petroleum hydrocarbons in the soil samples could not be ruled out; and that potential human health risk from exposure to the

benzene and ethylbenzene in the shallow soil could not be ruled out. EFI Global recommended that the oil well identified during the investigation and other oil wells identified during future site development be abandoned according to state and local guidelines; that additional soil sampling be performed to further characterize the detected petroleum hydrocarbons and VOCs; that ground-water sampling be performed to assess whether shallow ground water has been impacted; and that soil vapor sampling be performed to assess potential vapor intrusion risk.

1.2.2 GeoConcepts, Inc.

GeoConcepts, Inc. (2017) performed a geologic and geotechnical engineering investigation at the site in November 2017, which involved excavating 14 test pits and drilling a boring at 426 Firmin Street to a depth of 40 feet below the ground surface. Sediments encountered in the test pits were described as artificial fill (silty clay with sand; clayey silt with sand; sand) from the ground surface to a maximum depth of 2½ feet below the ground surface; native soil (silty clay), which was generally observed at depths as shallow as 1 foot to as deep as 6½ feet below grade; and bedrock (sandstone and shale), which was encountered as shallow as 2½ feet below the ground surface in test pits to the maximum 40 foot-depth explored in the boring.

1.2.3 Essel Environmental Engineering & Consulting

Essel (2018) performed a subsurface environmental investigation in April 2018 that included advancing four borings at the site and collecting soil and soil vapor samples for laboratory analyses. Boring EE-1 was advanced at the northwestern corner of 426 Firmin Street near the inferred location of the well H. Rogalske 2A; boring EE-2 was advanced in the east-central portion of 426 Firmin Street near the inferred location of well H. Rogalske 3; and boring EE-3 was advanced at the southeastern corner of 418 Firmin Street near EFI Global, Inc.'s boring B2 and the inferred location of well H. Rogalske 1-1. The borings were advanced to depths of 24 to 28 feet below the ground surface and, after collecting soil samples for laboratory analyses, soil vapor probes were installed in the borings variously at depths of 7, 10, and 20 feet below the ground surface. Essel also advanced a boring (EESV-1) at the southeastern corner of 426 Firmin Street to a depth of 20 feet below grade and installed soil vapor probes (EESV-1) in the borehole at depths of 10 and 20 feet below grade. Plate 2 shows the locations of EE-1 through EE-3 and EESV-1.

In boring EE-3, wood, plastic, and a void were encountered between 3 and 8 feet and oil, oily sludge, and oil-saturated soil were encountered between 8 and 15 feet below the ground surface. The materials encountered in this boring suggested a buried "oil pit" is present at this location.

Two soil samples were collected from borings EE-1 through EE-3 at various depths of 7, 10, 18½, 19, and 19½ feet below the ground surface and were analyzed for total petroleum hydrocarbons (TPH) in the gasoline, diesel, and motor oil ranges and for VOCs. Laboratory analytical results showed very low (13 mg/kg diesel) or no detectable TPH in soil from boring EE-1, located near the northwestern corner of 426 Firmin Street and well H. Rogalske 2A. No TPH was detected in soil at 7 feet below grade and moderate concentrations of diesel and motor oil (330 and 260 mg/kg, respectively) were detected at 19½ feet below grade in boring EE-2, located in the southeastern portion of 426 Firmin Street near EFI Global's inferred location of well H. Rogalske 3. Relatively elevated concentrations of diesel (1,300 and 900 mg/kg) and motor oil (870 and 1,900 mg/kg) were detected, respectively at 10 and 19 feet below the ground surface in boring EE-3, located near the southeastern corner of 418 Firmin Street and near well H. Rogalske 1-1.

Soil vapor samples collected from vapor probes installed in borings EE-1 through EE-3 and EESV-1 were analyzed for gasoline petroleum hydrocarbons, volatile organic compounds, and methane. No gasoline petroleum hydrocarbons were detected in soil vapor samples collected at the location of EE-1, near the inferred location of H. Rogalske well 2A; moderate concentrations (1,900 to 17,800 micrograms per cubic meter [µg/m^3]) of gasoline petroleum hydrocarbons were detected in vapor samples collected at the locations of EE-2 and EESV-1 near the inferred location of H. Rogalske 3; and a relatively high concentration of gasoline petroleum hydrocarbons (116,000 µg/m^3) was detected in the soil vapor sample at the 7-foot depth at the location of boring EE-3 where the void, oil, and oily sludge were encountered. Several VOCs were sporadically detected in six of the seven vapor samples at concentrations ranging from 41 to 63,000 µg/m^3. Detected analytes included the petroleum-related hydrocarbon compounds carbon disulfide, cyclohexane, hexane, toluene, and xylenes and the chlorinated hydrocarbon trichloroethene. None of the detected VOCs were greater than the corresponding human-health-risk-based vapor intrusion screening levels for a residential property. Methane was detected at trace to low concentrations (0.95 to 110 parts per million by volume [ppmv]) in the vapor samples. These concentrations are well below the DTSC's "action level" of 5,000 ppmv, which the DTSC considers a methane hazard if present beneath a building.

Essel concluded 1) the petroleum hydrocarbons detected in the subsurface suggested the source(s) of the contaminants were the former oil field exploration and production activities, 2) boring EE-3 was advanced through an abandoned pit possibly used to contain petroleum-related wastes generated during historic oil field operations, 3) diesel range petroleum hydrocarbons in soil were at concentrations that might present a human health risk from direct contact, and 4) soil vapor data did not suggest that a vapor intrusion health risk from VOCs or an explosion hazard from methane were present at the site. Essel recommended that a Site Management Plan be prepared to address health and safety, characterization of soil, oil, and oily sludge to be removed from the site, dust and vapor control, and air monitoring, as necessary. Essel also recommended delineation of the extent of the "oil pit" encountered in boring EE-3 and proper abandonment of historic oil wells (per state and local requirements) that might be encountered during site development. Essel further indicated that incorporation of methane or other VOC vapor intrusion mitigation measures into the design and construction of the new residential building may be warranted or desired.

1.2.4 Distribution of Contaminants

Soil

The results of the previous subsurface environmental investigations performed by EFI Global (2017b) and Essel (2018) indicated that diesel- and motor-oil-range petroleum hydrocarbons have impacted soil in the southeastern and southern portions of the site. Relatively elevated concentrations (between 870 and 11,500 mg/kg) were found in EFI Global borings B2, B3, and B4 and Essel boring EE-3 at depths as shallow as 2 feet to as deep as 25 feet below the ground surface. Notably lower levels or no detectable concentrations of diesel- and motor-oil-range petroleum hydrocarbons were found in borings B1, B5, B6, EE-1, and EE-2, which were advanced in the central, northern, and western portions of the site. Low concentrations of gasoline-range petroleum hydrocarbons and VOCs were only sporadically detected in soil samples. Based on these data, the lateral extent of petroleum-impacted soil is generally defined to underlie the southeastern portion of the site. The vertical extent of petroleum-impacted soil in this area extends to a depth greater than 25 feet and was not defined.

Soil Vapor

Relatively low concentrations of gasoline-range petroleum hydrocarbons, VOCs, and methane were detected in soil vapor samples collected at the site. The highest concentrations of these volatile compounds were detected in vapor probe EE3-SV7 located near the southeastern corner of 418 Firmin Street. Lower concentrations were detected in vapor samples collected from vapor probes in borings EE-2 and EESV-1 located in the eastern portion of 426 Firmin Street. Trace concentrations to no detectable concentrations of these contaminants were found in vapor samples collected from boring EE-1 located near the western edge of 426 Firmin Street.

1.3 Planned Development

Essel understands that Decro Corporation plans to construct a seven-story residential building, the footprint of which will occupy nearly the entire site. The structure will include a lower partly underground parking level, a second floor aboveground level that will include parking, offices, and some residential units, and five floors (third through seventh) that will consist of residential units. An 8- to 12-foot-wide perimeter around the building will be landscaped. Preliminary architectural plans (Dahlin Group, 2018) indicate the lower parking level may be as much as 12 feet below the ground surface in the southwestern (uphill) portion of the site. GeoConcepts, Inc. (2017) indicates vertical excavations may be as much as 20 feet below grade, also likely to be near the southwestern edge of the site. Plate 3 shows the footprint of the proposed building relative to site features.

2.0 FIELD AND LABORATORY WORK

Field work for this investigation included drilling/advancing nine borings (EE-4 through EE-12) to sample soil and advancing three borings (EESV-2, EESV-3, and EESV-4) to sample soil vapor. Laboratory work included analyzing the soil samples for total petroleum hydrocarbons and VOCs and analyzing soil vapor samples for gasoline petroleum hydrocarbons, VOCs, and methane. The following sections provide descriptions of the field and laboratory work performed.

2.1 Geophysical Survey and Results

Field Procedures

Essel subcontracted with Spectrum Geophysics (Spectrum) of Chatsworth, California to perform a geophysical survey at the site to locate potential abandoned oil wells and to clear proposed boring locations with respect to subsurface utilities. The October 8, 2018 survey was performed in the open areas of the three parcels outside the dwellings and detached garages. Before performing the survey, Spectrum marked grids on the three parcels; one parallel and perpendicular to the house at 418 Firmin Street, and one parallel and perpendicular the fence line between 426 and 430 Firmin Street. The grids consisted of stations marked at 5-foot intervals along survey lines that were placed 10 feet apart.

Spectrum used magnetometer/gradiometer equipment to attempt to locate possible oil wells and used ground-penetrating radar (GPR) and active and passive electromagnetic equipment to identify underground utilities, conduits, and other shallow buried metallic objects near proposed boring locations. According to Spectrum, oil wells in southern California are usually too deep to be located using GPR.

The magnetometer/gradiometer equipment measures the earth's magnetic field intensity with the intent of identifying significant magnetic anomalies that might indicate massive buried ferromagnetic features, such as buried oil well casings. Both the total magnetic field and vertical magnetic gradient were measured at 0.5-second intervals, equivalent to a data point on an average spacing of 1.5 feet. The data were used to create contour maps to assist in identifying potential anomalies. On these maps, background magnetic readings (total field and gradient) are shown as yellow colors, negative magnetic anomaly readings are shown as green to blue colors, and positive anomaly readings are shown as orange, red, and pink colors. Surface and aboveground metal objects, such as fences and building walls, produce magnetic field readings below background (i.e., negative) and magnetic gradient readings that can be either above (i.e., positive) or below (negative) the background reading. Buried horizontal metal objects such as pipes and underground storage tanks exhibit dipolar (positive at one end and negative at the other end) magnetic readings and contour anomalies. Buried vertical structures, such as the intact steel casing of a well, typically exhibit notable positive magnetic field and gradient readings and circular monopolar contour anomalies. Spectrum cautions that old oil wells might have less massive (i.e., stovepipe) near surface casings and, if these casings are significantly corroded, buried too deep, or close to surface metal objects, the casings might not be detectable by the magnetic survey.

Results

At 418 Firmin Street, several moderate-amplitude magnetic anomalies were detected between the property boundary and the house and one high-amplitude magnetic peak was detected beneath the driveway next to the detached garage and near the DOGGR-plotted location of well H. Rogalske 1-1. A positive monopole anomaly was also indicated at this location by the total magnetic field data. The moderate amplitude anomalies are attributed to surface metal objects. The high-amplitude magnetic peak is inferred to be a buried metallic pipe passing through the location. Spectrum indicated that the monopole was not as broad as would be expected if several hundred feet of metal casing were present.

At 426 Firmin Street, negative magnetic readings, related to above ground fences, were detected around the perimeter of the parcel. Two low-amplitude positive anomalies, indicative of small buried metal objects, were identified in the northwestern and central portions of the parcel. The western anomaly is in the vicinity of the DOGGR-plotted location of well H. Rogalske 2A. Neither anomaly suggests the presence of several hundred feet of buried oil well casing. Spectrum did not identify an anomaly in the southeastern portion of the parcel near well H. Rogalske 3, although a chain-link fence at the property line might have interfered with magnetic readings.

At 430 Firmin Street, significant vertical magnetic gradients were detected and attributed to abundant aboveground metallic features at the parcel. A suspected broad monopolar high magnetic reading was detected in the backyard to the northeast of the detached garage. Spectrum indicates the monopole might be the end of a metal pipe or metal in the garage and that an oil well also is a potential source of the anomaly; however, cautions that a gap in the data due to the garage and a metal fence, precludes determining if the anomaly is a true magnetic monopole. The closest DOGGR-plotted oil well is H. Harrison 1, located off-site to the east.

The absence of robust magnetic monopoles does not preclude the potential presence of wells at the site. Aboveground and belowground ferrous-containing objects may distort or interfere with magnetic field measurements. In addition, the wells might not be detected if the metal surface

casing is thinner (e.g., stove pipe) and buried too deep or is significantly corroded. Spectrum (2018) prepared a report presenting the survey techniques and results, including site and contour maps (Figures 2 through 7) showing the identified subsurface features and magnetic anomalies. A copy of Spectrum's report is included in Appendix A.

2.2 Drilling Permit, Utility Clearance, and Health and Safety Plan

Essel submitted an Application for Well Permit and a work plan (Essel, 2018) to the County of Los Angeles Department of Public Health, Drinking Water Program (Drinking Water Program). The Drinking Water Program approved the permit (No. SR0160002) to drill the soil borings on September 28, 2018. A copy of the approved permit is included in Appendix B. Essel marked the proposed boring locations and notified Underground Service Alert of Southern California on October 2, 2018 of the planned drilling activities. This notification occurred more than 48 hours before drilling began. On October 8, 2018, Spectrum Geophysics used the above-described electromagnetic and ground-penetrating radar equipment to identify and mark subsurface utilities or other obstructions at the proposed boring and vapor probe locations.

Essel prepared a site-specific Health and Safety Plan (HSP) for the project and the HSP was available at the site during field activities. Essel's project manager conducted a Health and Safety tailgate meeting before beginning field work to brief subcontractor personnel regarding potential on-site hazards that might be encountered during field activities.

2.3 Locations of Borings

Borings were drilled/advanced at nine locations to provide additional soil information and at three locations to provide additional soil vapor data. Boring locations are described below and depicted on Plates 2 and 3.

- Borings EE-4, EE-6, and EE7 were drilled across the southeastern portion of 426 Firmin Street approximately midway between EFI Global boring B5 and the southeastern edge of the parcel. These borings were placed at locations to assess the westward extent of elevated diesel and motor oil petroleum hydrocarbons detected at the southeastern edge of this parcel. Low concentrations of petroleum hydrocarbons were detected in central boring B5.
- Boring EE-5 was drilled at the eastern edge of 426 Firmin Street to assess petroleum contaminants between EFI Global boring B3 and EFI Global's inferred location of historic oil well H. Rogalske 3.
- Borings EE-8, EE-9, and EE-10 were drilled and advanced at locations around previous boring EE-3 (418 Firmin Street) to define the lateral extent of the presumed "oil pit" encountered between 3 and 8 feet below the ground surface in boring EE-3.
- Boring EE-11 was advanced at a location from 10 to 15 feet northeast of previous borings B2 and EE-3 (418 Firmin Street) to delineate the northeastward extent of the elevated petroleum contaminants detected in soil at the two borings.
- Boring EE-12 (418 Firmin Street) was advanced further to the northeast of borings B2, EE-3, and EE-11 to assess potential petroleum contaminants at the property line between 418 and 426 Firmin Street.
- The borings for soil vapor probes EESV-4, EESV-2, and EESV-3 were advanced at east-central locations on 418, 426, and 430 Firmin Street, respectively, to assess soil vapor conditions beneath the north-to-south footprint of the future building.

2.4 Drilling and Advancing Borings and Sampling Soil

Essel subcontracted with Gregg Drilling and Testing, Inc. (Gregg) of Signal Hill, California (C-57 license number 485165) to drill/advance borings and construct soil vapor probes. Work was performed from October 9 through 12, 2018. Gregg used a Marl Technologies, Inc. M5T, track-mounted rig with direct-push and hollow-stem auger capabilities to drill/advance borings EE-4 through EE-12 and the borings for soil vapor probes EESV-2 through EESV-4. Borings EE-4 through EE-8, EE-11, and EE-12 were drilled to a depth of 52 feet below the ground surface using a 6¼-inch-outside-diameter hollow-stem auger. Borings EE-9 and EE-10 were advanced to a depth of 20 feet below grade using direct-push and a 2½-inch-outside-diameter hollow steel rod. The borings for vapor probes EESV-2, EESV-3, and EESV-4 were advanced using direct-push with the hollow-steel rod to a depth of 7 feet below the ground surface.

Continuous soil cores were collected from borings EE-4 (ground surface to 17 feet below grade), EE-9, and EE-10 and 2-foot-long soil cores were collected at 5-foot intervals from borings EE-4 (20 to 52 feet below the ground surface) through EE-8, EE-11, and EE-12. The cores were collected in 1¾-inch-outside-diameter by 4-foot-long, clear plastic (acetate) sleeves contained in the hollow steel rod (core barrel). The acetate sleeve was removed from the core barrel after each sampling interval and replaced with a clean acetate sleeve for the next lower sampling interval. Soil cores contained in the acetate sleeves were screened in the field for evidence of contaminants; the sediments were identified and described; and select samples were retained for laboratory analysis. The retrieved cores were screened for volatile organic compound vapor concentrations using a photoionization detector (PID). The tip of the PID was placed against the freshly exposed soil to measure organic vapor concentrations, which were recorded on field boring logs. Field screening also included visual observation of the soil for discoloration and noting any odors in the soil.

Soil encountered during drilling was described and classified using the Unified Soil Classification System (USCS). Logs of Borings EE-4 through EE-12 present descriptions of the sediments encountered in the boreholes, PID readings, and the depth intervals at which soil samples were collected for laboratory analysis. The USCS and boring logs are included in Appendix C (Plates C-1 through C-26).

Essel retained from four to eight soil samples from each boring (total of 54 samples) for laboratory analysis. Soil samples were collected from the borings at depth intervals of 5 to 10 feet between 5 and 52 feet below the ground surface. Samples were collected by cutting a length (minimum of 6 inches) of the acetate sleeve at the selected depths, covering the ends of the sleeve with Teflon sheets and plastic caps, and sealing the ends with duct tape. Each sample was labeled with a unique identifying number and placed on ice in a cooler pending delivery to the analytical laboratory. Essel prepared a Chain-of-Custody form for the soil samples and this form accompanied the samples to the laboratory. A copy of the Chain-of-Custody form is included in Appendix D.

2.5 Soil Vapor Probe Installation and Sampling

Boreholes for soil vapor probes EESV-2 through EESV-4 were advanced to an approximate depth of 7 feet below the ground surface on October 10, 2018. Each temporary vapor probe consisted of a stainless-steel filter screen inserted into ¼-inch-diameter Nylaflow tubing. The filter screen was suspended at a depth of 6½ feet below the ground surface. The probes were completed by placing 6 inches of clean sand (Monterey #3) below and 6 inches of clean sand above the filter screen. One foot of dry granular bentonite crumbles (Enviroplug #8 hole plug) was placed on top

of the sand followed by 1-foot-thick lifts of either bentonite crumbles or medium-size bentonite chips (Enviroplug Medium), which were hydrated with clean water to provide an airtight seal above the sand and filter screen and around the tubing to the ground surface. The top end of the tubing was capped with a valve to prevent atmospheric air from entering the probe hole. The vapor probes were installed approximately 20 hours before vapor sampling took place to allow subsurface conditions to equilibrate and the hydrated bentonite seal to set. Plates C-27, C-28, and C-29 contained in Appendix C present construction diagrams for soil vapor probes in EESV-2 through EESV-4, respectively.

Essel subcontracted with Blaine Tech Services, Inc. (Blaine Tech) of Carson, California to sample the soil vapor probes on October 11, 2018. The soil-vapor-probe purging and sampling system consisted of a 6-liter purging Summa canister, 1-liter sampling Summa canisters, and manifolds that included valves, downhole and canister vacuum gauges, and a flow controller. The laboratory had evacuated each Summa canister to a negative pressure (vacuum) of approximately 30 inches of mercury. A separate clean manifold was used for each vapor sample. Manifolds were connected to the tubing of the soil probes using Swagelok fittings and were connected to the 6-liter purge canister with a quick disconnect fitting. Soil vapor probes EESV-2, EESV-3, and EESV-4 were purged of approximately three volumes (1,500 milliliters) of air (tubing and void space around the sand grains) using the 6-liter Summa canister.

After purging, the valves on the manifold were closed, the purge canister was removed and replaced (via the quick disconnect fitting) with a 1-liter sampling canister, and a box (i.e., shroud) was placed over the sampling assembly. As a leak check, 1,1-difluoroethane contained in an aerosol can was sprayed onto paper towels that were placed in the shroud to provide a leak check tracer gas during sampling. Soil-vapor samples were collected at a controlled flow rate of 150 milliliters per minute. Sampling was completed when the vacuum gauges indicated that the negative pressure in the canisters was at 5 inches of mercury.

At the completion of sampling, the valves on the manifolds were closed and the manifold assemblies were disconnected from the sample canisters. Blaine Tech documented purging and sampling work on field sheets, copies of which are contained in Appendix E. Essel prepared a Chain-of-Custody form for the vapor samples and this form accompanied the samples to the laboratory. A copy of the Chain-of-Custody form is included in Appendix F.

2.6 Backfill of Soil and Vapor Probe Boreholes

Borings EE-4 through EE-12 were abandoned at the completion of soil sampling. Gregg used neat cement slurry to backfill the boreholes from the total depths to the ground surface. Essel removed the Nylaflow tubing from the three vapor probes. The hydrated bentonite left in the holes provides an effective seal.

2.7 Laboratory Analyses

Soil and soil-vapor samples were delivered to SunStar Laboratories, Inc. (SunStar [Certificate No. 2250]) in Lake Forest, California for analysis. SunStar analyzed the 54 soil samples for total petroleum hydrocarbons in the gasoline, diesel, and motor oil ranges using United States Environmental Protection Agency (USEPA) Method 8015B. Twenty-one of the soil samples were also analyzed for VOCs using USEPA Method 8260B.

SunStar analyzed three soil-vapor samples for gasoline-range petroleum hydrocarbons using USEPA modified Method TO-3; VOCs, including the leak check tracer 1,1-difluoroethane, using USEPA Methods TO-15 or TO-14; and methane using USEPA modified Method 8015.

3.0 RESULTS OF INVESTIGATION

3.1 Geology and Ground Water

Sediments encountered in the nine borings to the total depth explored of 52 feet below the ground surface were observed to be silty clay soil overlying moderately to highly weathered claystone that transitions downward to slightly weathered and unweathered claystone/siltstone. Silty clay soil was encountered in borings from the ground surface to depths of 3 to 6 feet below grade. This soil was noted to contain minor sand and gravel, be dusky brown, dusky yellowish-brown, or brownish black in color, and be of hard consistency.

The top of the transition zone of moderately to highly weathered bedrock was noted at depths of 3 to 6 feet below grade by color changes from dusky brown to light olive gray, dusky yellow green, greenish gray, and dark greenish gray. Silty clay soil in this zone was observed in cores to be variably colored (greenish gray, black, grayish black, gray, yellowish brown, pale orange, bluish gray) and mottled or variegated. Alternating lighter (gray, light olive gray, pale yellowish-brown to dark yellowish-brown) silt and darker (greenish gray, dark greenish-gray) clay laminae were present in some cores and silt, silty sand, and sand lenses varying from 1 to 6 inches thick were observed occasionally. Laminar bedding was noted as shallow as 5 feet below the ground surface. White and pale orange weathering deposits were observed as specks, patches, and bands and dark yellowish-orange and moderate reddish-brown staining was observed in bands, as patches, and irregularly disseminated through the cores to maximum depths of 10 to 17 feet below the ground surface.

Slightly weathered to unweathered bedrock was observed in cores collected at depths greater than 15 to 17 feet. Yerkes and Campbell (2005) identify the bedrock underlying the site as siltstone of the Puente Formation. The late Miocene to early Pliocene-age Puente Formation consists of siltstone, sandstone, and shale, which were deposited in a marine environment. The youngest unit (early Pliocene age) of the formation is the siltstone member, which is described as well-bedded and light gray. In sediment cores collected at depths greater than 15 to 17 feet below grade, the bedrock appears to be principally claystone with interbedded silt laminae and some silt lenses. Individual gravel clasts were observed on occasion. Laminar bedding, consisting of alternating clay and silt laminae was observed at various depths in a number of cores. The claystone is dark greenish-gray, greenish gray, olive gray, olive black, and dusky brown, is of medium to high plasticity, and in places, was noted to be slightly to moderately indurated. The silt lenses and laminae are light olive gray, medium light gray, yellowish gray, and dark yellowish-brown and exhibited low plasticity or no plasticity. Almost no weathering features, such as deposits or staining, were observed in the cores collected at depths of 20 feet and greater. Plates 4 and 5 present interpretations of the subsurface geology along cross sections A-A' (south to north) and B-B' (west to east). Plate 3 shows the locations of the two cross sections.

Ground water was not encountered in borings EE-4 through EE-12 to the maximum depth explored of 52 feet below the ground surface. Ground water was not encountered in previous borings advanced by Essel (maximum depth of 28 feet below the ground surface), EFI Global (maximum depth of 25 feet below the ground surface), or GeoConcepts, Inc. (depth of 40 feet below the ground surface).

Information on the depth to first ground water is not readily available for the site vicinity. Records available from the California Division of Oil, Gas & Geothermal Resources (DOGGR) for an oil well (Dividend 15) recently abandoned at an adjacent property (411 North Boylston Street) indicate the base of the fresh ground-water zone is approximately 150 feet below the ground surface. The depth to the top of the fresh water zone is not indicated in the well abandonment record. Online maps available from the California Department of Water Resources (2018) indicate that the site and vicinity are outside the boundary of a ground-water basin, suggesting no useable ground water underlies the site.

3.2 Field Evidence of Contaminants

Field evidence of petroleum hydrocarbons during the current investigation included detectable organic vapor readings and noticeable petroleum odor. Relatively low organic vapor concentrations (0.1 to 57.6 parts per million by volume [ppmv]) were detected; however, detectable concentrations were present in nearly every core retrieved from the nine borings. The highest concentrations, in general, were present in borings EE-8 and EE-11, located near the southeastern corner of the site (418 Firmin Street) in the vicinity of the "oil pit" encountered in boring EE-3 and plugged and abandoned oil well H. Rogalske 1-1. Petroleum odor, varying in strength from very slight to moderate, was also noted in most cores retrieved and was consistently noticeable in the slightly weathered to unweathered bedrock encountered below the 15- to 17-foot depth in the nine borings. The logs of borings in Appendix C present the organic vapor concentrations detected and the petroleum odors noticed in cores retrieved from borings EE-4 through EE-12.

During previous investigations, Essel found relatively higher (90 to 370 ppmv) organic vapor concentrations in borings EE-2, EE-3, and EESV-1, advanced in the southeastern portion of the site. These higher concentrations were generally detected in soil at depths below the ground surface of 15 feet or greater. EFI Global (2017) also found relatively elevated organic vapor concentrations in boring B2 (170 to greater than 5,000 ppmv), advanced within a few feet of borings EE-3, EE-8, and EE-11; and boring B3 (115 to 238 ppmv), advanced near the eastern edge of 426 Firmin Street. These higher vapor concentrations were detected in cores collected at and below the 10-foot depth. EFI Global also reported gray discolored soil observed in cores retrieved from borings B2, B3, and B4 as evidence of contaminants.

No field evidence of significant petroleum hydrocarbon contaminants was noted in EFI Global borings B1, B5, and B6, which were advanced in the central area of 426 Firmin Street and at 430 Firmin Street. No field evidence of significant petroleum hydrocarbon contaminants was found in Essel boring EE-1, advanced near the western edge of 426 Firmin Street.

3.3 Laboratory Analytical Results

3.3.1 Soil/Bedrock

Essel submitted four to eight soil samples from each boring for laboratory analysis for petroleum hydrocarbons in the gasoline, diesel, and motor oil ranges and for VOCs. A greater number of samples were submitted to more closely delineate the extent of petroleum impact identified during previous investigations.

Total Petroleum Hydrocarbons - 426 Firmin Street

Borings EE-4 through EE-7 were drilled at locations in the southeastern portion of 426 Firmin Street to a depth of 52 feet below the ground surface. Results of analyses of soil and bedrock samples show low concentrations (11 to 87 mg/kg) of gasoline-range petroleum hydrocarbons in samples collected generally at depths of 15 feet and greater. Gasoline-range petroleum hydrocarbons were not detected in samples from the 5- and 10-foot depths in borings EE-5 and EE-7; the 5-, 10, and 15-foot depths in boring EE-4; and the 5-, 10-, 15-, and 20-foot depths in boring EE-6.

Petroleum hydrocarbons in the diesel and motor oil ranges were the dominant compounds detected in samples, with concentrations in the motor oil range consistently greater than concentrations in the diesel range. Either no detectable concentrations or low (less than 100 mg/kg) to moderate (100 to 640 mg/kg) concentrations were found in samples from the 5- and 10-foot depths in the four borings. Except in boring EE-6, concentrations greater than 1,000 mg/kg diesel, motor oil, or both were detected in samples collected at depths of 15 feet and greater. Concentrations greater than 1,000 mg/kg were detected in the 30-foot-depth and deeper samples in boring EE-6. The highest concentrations of the two ranges of petroleum hydrocarbons were found at the 50-foot depth in borings EE-4 and EE-5, the 30-foot depth in boring EE-6, and the 45-foot depth in boring EE-7. Two of the four highest motor oil concentrations were greater than 10,000 mg/kg. Plates 4 (Cross Section A-A') and 5 (Cross Section B-B') present the vertical distribution of the three ranges of petroleum hydrocarbons in the subsurface.

Total Petroleum Hydrocarbons - 418 Firmin Street

Borings EE-9 and EE-10 were advanced to a total depth of 20 feet and borings EE-8, EE-11, and EE-12 were drilled to a total depth of 52 feet below the ground surface at locations in the southeastern portion of 418 Firmin Street. Higher concentrations of gasoline-range petroleum hydrocarbons were found in samples collected at 418 Firmin Street than in samples collected at 426 Firmin Street. The highest concentrations of 1,200 and 2,400 mg/kg were detected at 21½ and 30 feet below grade in boring EE-8, which was drilled between the "oil pit" and the inferred location of well H. Rogalske 1-1. In this boring, concentrations increased from 32 mg/kg at 10 feet below grade to the maximum 2,400 mg/kg at 30 feet below grade, then decreased to 550 and 320 mg/kg respectively in samples collected at 41½ and 51½ feet below the ground surface. Low to moderate concentrations of 66 to 450 mg/kg were detected at 10 feet, 15 feet, and the 20-foot total depth of borings EE-9 and EE-10 and at 16½ and 26½ feet below grade at boring EE-11. No gasoline range petroleum hydrocarbons were detected at the 5-foot depth in borings EE-8 through EE-11 or below the 26½-foot depth in boring EE-11. Boring EE-12 was advanced at the northern edge of 418 Firmin Street. Gasoline range petroleum hydrocarbons were not detected between 5 and 40 feet below grade and were detected at 310 mg/kg at 51½ feet below grade.

As at 426 Firmin Street, petroleum hydrocarbons in the diesel and motor oil ranges were generally more dominant in samples than the gasoline-range hydrocarbons, particularly in samples collected at depths greater than 15 feet. The most frequent elevated concentrations were detected in boring EE-8 with levels greater than 1,000 mg/kg in all samples collected below the 20-foot depth and motor oil concentrations greater than 10,000 mg/kg in samples collected at depths of 30 feet and greater. Concentrations greater than 1,000 mg/kg diesel, motor oil, or both were also found at 15 feet in boring EE-10, 19½ feet in boring EE-9, and 26½ feet below grade in boring EE-11. At each of these borings, diesel and motor oil petroleum hydrocarbons were not detected in samples collected at 5 feet below the ground surface. No diesel or motor oil

petroleum hydrocarbons were detected in samples collected at 5 and 10 feet below grade in boring EE-12. Low to moderate concentrations were detected in this boring at 15, 30, and 40 feet below grade, and high concentrations were detected at the 51½-foot depth in boring EE-12. The latter concentrations of 11,000 mg/kg diesel and 18,000 mg/kg motor oil are the highest concentrations detected during the current investigation. Plates 4 (Cross Section A-A') and 5 (Cross Section B-B') present the vertical distribution of the three ranges of petroleum hydrocarbons in the subsurface.

Volatile Organic Compounds

Twenty-one of the 52 soil samples collected from borings EE-4 through EE-12 were also analyzed for VOCs and, consistent with previous results, very low concentrations of petroleum-related volatile constituents were sporadically detected in the samples. The detected compounds variously included benzene, toluene, ethylbenzene, naphthalene, sec-butylbenzene, tert-butylbenzene, isopropyl benzene, and n-propyl benzene. The highest concentrations and number of compounds detected were present in samples collected from boring EE-8 (418 Firmin Street).

Table 1 presents the cumulative laboratory analytical results for petroleum hydrocarbons and VOCs in soil/bedrock samples analyzed during the present and previous investigations. Appendix D contains the laboratory report of analysis for the soil/bedrock samples from borings EE-4 through EE-12.

Environmental Screening Levels

Concentrations of VOCs detected in the soil and bedrock samples were compared to available human-health risk-based screening levels for direct exposure developed by the DTSC and USEPA. Concentrations of the three ranges of petroleum hydrocarbons were compared to environmental screening levels (ESLs) for health risk from direct exposure (the three ranges of petroleum hydrocarbons) and for nuisance odors (gasoline- and diesel-range petroleum hydrocarbons) developed by the San Francisco Bay Regional Water Quality Control Board (2016).

A large number of soil and bedrock samples from borings EE-4 through EE-12 contained gasoline- and diesel-range petroleum hydrocarbon concentrations greater than the corresponding ESLs for direct exposure, nuisance odors, or both. These exceedances; however, were predominantly in samples collected at depths of 15 feet and greater below the ground surface. Concentrations of motor-oil-range petroleum hydrocarbons were greater than the corresponding direct-exposure ESL in samples collected at depths of 30 to 50 feet below grade. None of the VOCs detected in the soil and bedrock samples were at concentrations greater than the corresponding DTSC or USEPA screening levels. Table 1 presents the cumulative laboratory results of analyses for petroleum hydrocarbons and VOCs in the soil and bedrock samples collected during the present and previous investigations. Appendix D contains the laboratory report of analysis for the soil samples from borings EE-4 through EE-12.

3.3.2 Soil Vapor

Soil vapor samples were collected at a depth of 6½ feet below the ground surface in the soil vapor probes installed in borings EESV-2, EESV-3, and EESV-4. These vapor probes were installed at 426, 430, and 418 Firmin Street, respectively. The three soil vapor samples collected were analyzed for gasoline-range petroleum hydrocarbons, VOCs, and methane. The results of

laboratory analyses show detectable concentrations of the leak-check tracer gas 1,1-difluorethane, varying from 1,300 to 6,500 micrograms per cubic meter (µg/m^3). The detected concentrations indicate some leakage in the sampling equipment; however, the concentrations detected are not expected to significantly affect the sample results.

The presence of high concentrations of one or more compounds in samples requires the samples be diluted before analysis, which results in higher reporting limits (RLs). The reporting limit is the lowest concentration at which a compound is detected with a 100 percent confidence in the concentration and target compounds at concentrations below the RL would be reported as non-detect. The method detection limit (MDL) is the lowest concentration at which a compound can be detected and is associated with a 95 percent confidence that the compound is present in the sample. Compounds detected at levels greater than the MDL and less than the RL are reported as estimated concentrations. The laboratory analytical report for the soil vapor sample collected from vapor probe EESV-4 includes higher RLs for gasoline-range petroleum hydrocarbons and VOCs because of the elevated concentration of the gasoline-range organics in this sample. Essel; therefore, requested that the laboratory also include the MDLs associated with each compound so potential compounds at lower concentrations would be reported.

Gasoline-Range Petroleum Hydrocarbons

The results of laboratory analyses show gasoline-range petroleum hydrocarbons were not detected in samples collected from soil vapor probes EESV-2 and EESV-3, installed at 426 and 430 Firmin Street, respectively. A very high concentration of 6,750,000 µg/m^3 gasoline-range petroleum hydrocarbons was detected in soil vapor probe EESV-4, installed at 418 Firmin Street in the vicinity of the "oil pit" and historic oil well H. Rogalske 1-1.

The USEPA and the DTSC have not established screening levels for gasoline-range petroleum hydrocarbons in soil vapor or indoor air to evaluate human health risk associated with vapor intrusion. The San Francisco Bay Regional Water Quality Control Board (2016); however, has developed ESLs for gasoline-range petroleum hydrocarbons to assess the soil vapor to indoor air exposure pathway. For residential properties, the most stringent ESL for gasoline-range petroleum hydrocarbons, based on nuisance odors, is 50,000 µg/m^3; whereas, the residential ESL for gasoline-range petroleum hydrocarbons based on human health risk from direct exposure is 300,000 µg/m^3. The concentration of gasoline-range petroleum hydrocarbons in soil vapor probe EESV-4, located at 418 Firmin Street is greater than both the nuisance odor ESL and the health-risk-based ESL. The concentration of gasoline-range petroleum hydrocarbons in previous vapor probe EE3-SV7, located directly above the petroleum product in the oil pit at 418 Firmin Street, was greater than the nuisance odor ESL, but well below the health-risk-based ESL. Concentrations of gasoline-range petroleum hydrocarbons in other vapor samples collected in April and October 2018 were well below 50,000 µg/m^3 and; therefore, also well below the health-risk-based ESL. Table 3 presents the concentrations of gasoline-range petroleum hydrocarbons detected in soil vapor at the site and the corresponding nuisance odors and health-risk-based ESLs. Appendix F contains the laboratory analytical report for the most recent samples collected from vapor probes EESV-2 through EESV-4.

Volatile Organic Compounds

Several VOCs were sporadically detected in soil vapor samples collected from EESV-2, EESV-3, and EESV-4 at concentrations ranging from 2.8 (estimated concentration) to 890 µg/m^3. Detected analytes included the petroleum-related hydrocarbon compounds benzene, m,p-xylene, and

heptane. The solvents acetone, chloroform, and isopropyl alcohol (not used as a tracer), and vinyl acetate, used in the production of coatings (paint, film packaging, resins, paper coatings) and additives to cement and adhesives, were also detected in the soil vapor samples.

The DTSC (2018) and the USEPA (2017) have published human-health-risk indoor air screening levels for a number of volatile compounds and these screening levels may be compared to soil vapor concentrations using an attenuation factor for vapor migration through building foundations. For a future residential building at a site, the DTSC (2011) uses an attenuation factor of 0.001. Indoor air screening levels are multiplied by 1,000 and the resulting levels are compared to concentrations detected in the soil vapor. Based on the 0.001 attenuation factor, none of the VOCs detected in the soil vapor samples collected in April and October 2018 were greater than the corresponding screening levels for a residential property. Table 3 presents the cumulative results of analyses for VOCs detected in one or more of the soil vapor samples, along with corresponding screening levels. Appendix F contains the laboratory analytical report for the samples collected in October 2018.

Methane

No methane was detected in the soil vapor sample collected from EESV-3 installed at 430 Firmin Street. A moderate methane concentration of 1,600 ppmv was detected in the sample from soil vapor probe EESV-2 installed in the east-central portion of 426 Firmin Street. A very high concentration of 490,000 ppmv methane was detected in the sample from soil vapor probe EESV-4 installed at 418 Firmin Street in proximity to the "oil pit" and well H. Rogalske 1-1.

Methane was detected in the seven soil-vapor samples collected in April 2018 (Essel, 2018), but at trace to low concentrations ranging from less than 1 ppmv to 110 ppmv. The lowest concentrations of 0.95 and 5.7 ppmv were found in the shallower and deeper vapor samples collected from northwestern boring EE-1 (426 Firmin Street). Methane was detected from 56 to 99 ppmv in vapor samples from borings EE-2 and EESV-1, located in the southeastern portion of 426 Firmin Street, and was detected at 110 ppmv in the vapor sample from southern boring EE-3 (418 Firmin Street) in which petroleum product was encountered.

The DTSC (2005) defines a methane hazard as an accumulation or potential accumulation of methane beneath a structure at concentrations greater than 5,000 ppmv. A methane concentration of 5,000 ppmv or greater is considered to be an action level where some mitigative measure should be implemented to avoid a potential for an explosion hazard. The concentrations of methane detected in EESV-2 and EESV-3 and previously sampled vapor probes (installed in borings EE-1, EE-2, EE-3, and EESV-1) are well below this action level. The concentration of methane detected in EESV-4 is well above the action level. Table 3 presents the concentrations of methane detected in soil vapor at the site and the corresponding DTSC action level. Appendix F contains the laboratory analytical report for samples collected from vapor probes EESV-2 through EESV-4.

The site is located within a methane zone as delineated by the City of Los Angeles Department of Public Works (2004). City of Los Angeles Ordinance No. 175790 (effective March 29, 2004) states that buildings located in a methane zone shall provide a methane mitigation system in accordance with test data and criteria presented in the ordinance. Mitigation system design levels are based on ranges of methane concentrations with Levels I through V corresponding to respective concentrations of 0-100, 101-1,000, 1,001-5,000, 5001-12,500, and greater than 12,500

ppmv. Based on the methane concentration detected at EESV-4, a Level V mitigation system would be required for the future site building.

3.4 Oil Pit

At boring EE-3, located at the southern corner of 418 Firmin Street, Essel (2018) reported encountering wood and plastic at 3 feet below grade, a void between 3 and 8 feet below grade, and oil, oily sludge, and oil-saturated soil between 8 and 15 feet below the ground surface. Essel advanced borings EE-8, EE-9, and EE-10 at locations from 5 to 10 feet to the southeast, northwest, and north of boring EE-3 to attempt to delineate the dimensions of the inferred "oil pit". No oil, oily sludge, or oil saturated soil were encountered in the three borings suggesting the pit is of restricted lateral extent. In 2017, EFI Global advanced boring B2 at a location approximately 5 feet east of boring EE-3. No oil, oily sludge, or oil saturated soil were encountered in this boring; however, EFI Global reported strong hydrocarbon odors and gray discolored soil in samples collected between 2 feet and the 25-foot total depth of the boring. The data suggest boring B2 was advanced very close to the "oil pit". Plates 2, 3, and 4 (Cross Section A-A') identify the approximate location of the "oil pit".

4.0 FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

4.1 Findings

The following is a summary of the findings of this subsurface environmental investigation.

- A geophysical survey was performed in the open areas of the site to attempt to identify the locations of potential historic oil wells.
    - At 418 Firmin Street, one high-amplitude magnetic peak and a positive monopole anomaly in the total magnetic field were detected beneath the driveway next to the detached garage and near the DOGGR-plotted location of historic oil well H. Rogalske 1-1. The high-amplitude magnetic peak is inferred to be a buried metallic pipe passing through the location. The positive monopole is suggestive of a vertical feature, such as a well, but the monopole was not as broad as would be expected if several hundred feet of metal casing were present.
    - At 426 Firmin Street, two low-amplitude positive anomalies, indicative of small buried metal objects, were identified in the western and central portions of the parcel. The western anomaly is in the vicinity of the DOGGR-plotted location of well H. Rogalske 2A. Neither anomaly suggests the presence of several hundred feet of buried oil well casing.
    - At 430 Firmin Street, a suspected broad monopolar high magnetic reading was detected in the backyard to the northeast of the detached garage. Potential sources for this anomaly are a metal pipe, metal in the adjacent garage, or an oil well; however, a gap in the data prevented determining if the anomaly was a true magnetic monopole indicative of an oil well. The closest DOGGR-plotted historic oil well is H. Harrison 1, located off-site to the east.
    - The absence of robust magnetic monopolar anomalies does not preclude the potential presence of wells at the site. Aboveground and belowground ferrous-containing objects may distort or interfere with magnetic field measurements. In addition, the wells might not be detected if the metal surface casing is thinner (e.g., stove pipe) and buried too deep or is significantly corroded.

- Nine borings (EE-4 through EE-12) were advanced or drilled to depths of 20 to 52 feet below the ground surface at locations across the eastern portions of 418 and 426 Firmin Street. Sediments encountered in the nine borings to the maximum depth explored were observed to be dark brown silty clay soil from the ground surface to depths of 3 to 6 feet below grade; a zone consisting of moderately to highly weathered, olive gray, greenish gray, and grayish black silty clay/claystone from the base of the silty clay to depths of 10 to 17 feet below grade; and slightly weathered and unweathered, olive gray to dark greenish-gray claystone/siltstone generally at depths of 15 feet and greater below the ground surface.

- Ground water was not encountered in borings drilled/advanced during the current or previous investigations to the maximum depth explored of 52 feet. Information on the depth to first ground water in the site vicinity is not available; however, oil-well abandonment records on an adjacent property indicate the base of the fresh ground-water zone is approximately 150 feet below the ground surface. Furthermore, the site does not overlie a ground water basin as designated by the California Department of Water Resources, suggesting no useable ground water underlies the site.

- A total of 52 soil/bedrock samples, collected at depth intervals of 5, 10, or 15 feet in borings EE-4 through EE-12, were analyzed for gasoline-, diesel-, and motor-oil-range petroleum hydrocarbons.

    - At 426 Firmin Street (borings EE-4 through EE-7) gasoline-range petroleum hydrocarbons were generally not detected from the ground surface to 15 feet below grade and were present at low concentrations (11 to 87 milligrams per kilogram [mg/kg]) in samples collected at depths of 15 feet and greater. Diesel- and motor-oil petroleum hydrocarbons were the dominant compounds detected in samples. Either no detectable concentrations or low (less than 100 mg/kg) to moderate (100 to 640 mg/kg) diesel and motor oil concentrations were found in shallow depth samples (5 and 10 feet below grade). In three of the borings, diesel, motor oil, or both diesel and motor oil concentrations were greater than 1,000 mg/kg at and below the 15-foot depth. In boring EE-6, these elevated diesel and motor oil concentrations were detected in samples collected at depths of 30 feet and greater. The highest concentrations of the diesel- and motor-oil-range petroleum hydrocarbons were found in samples collected at 30, 45, and 50 feet below the ground surface.
    - At 418 Firmin Street (borings EE-8 through EE-12), detected petroleum hydrocarbons were also dominantly in the diesel and motor oil ranges, although higher concentrations of gasoline-range petroleum hydrocarbons (32 to 2,400 mg/kg) were found in the five borings than were detected in borings at 426 Firmin Street. The consistently highest concentrations were detected in samples collected from boring EE-8, located closest to the “oil pit” and the presumed location of well H. Rogalske 1-1. Generally lower concentrations were detected in samples collected from more distant borings EE-9 through EE-12. Trends of increasing followed by decreasing concentrations of gasoline petroleum hydrocarbon concentration are present with increasing depth. Generally increasing concentrations of diesel and motor oil petroleum hydrocarbons are present with increasing depth. The highest diesel and motor oil concentrations were detected at the total depths (20 and 52 feet below the ground surface) of the five borings.

- A number of samples contained gasoline-, diesel-, or motor-oil-range petroleum hydrocarbons at concentrations greater than corresponding direct-exposure or nuisance odors environmental screening levels; however, these samples were predominantly collected at depths of 15 feet or greater below the ground surface.

- Twenty-one of the 52 soil/bedrock samples were also analyzed for volatile organic compounds (VOCs). Consistent with results reported during previous investigations, very low concentrations of petroleum-related volatile constituents were sporadically detected in the samples. The highest concentrations and number of compounds detected were present in samples collected from boring EE-8. None of the detected VOCs were at concentrations greater than corresponding human-health risk screening levels.

- Soil vapor probes EESV-2, EESV-3, and EESV-4 were installed to a depth of 7 feet below the ground surface in the east-central portions of 426, 430, and 418 Firmin Street, respectively. Soil vapor samples collected from the probes were analyzed for gasoline-range petroleum hydrocarbons, VOCs, and methane.

  - Gasoline-range petroleum hydrocarbons were not detected in samples collected from EESV-2 and EESV-3. A very high concentration of 6,750,000 micrograms per cubic meter ($\mu g/m^3$) gasoline-range petroleum hydrocarbons was detected in the sample from EESV-4. Vapor probe EESV-4 was installed in the vicinity of the "oil pit" and historic oil well H. Rogalske 1-1.
  - Several VOCs were sporadically detected in the three samples at concentrations ranging from 2.8 (estimated concentration) to 890 $\mu g/m^3$. Detected analytes included the petroleum-related hydrocarbon compounds benzene, m,p-xylene, and heptane; the solvents acetone, chloroform, and isopropyl alcohol, and vinyl acetate, used in the production of coatings (paint, film packaging, resins, paper coatings) and additives to cement and adhesives.
  - Methane was not detected at EESV-3 (430 Firmin Street), was detected at a concentration of 1,600 parts per million by volume (ppmv) at EESV-2 (426 Firmin Street), and was detected at a concentration of 490,000 ppmv at EESV-4.
  - The concentrations of gasoline-range petroleum hydrocarbons and methane in soil vapor probe EESV-4 are greater than the screening level for vapor intrusion health risk and action level for explosion hazard, respectively. None of the other contaminant vapor concentrations detected during the current and previous investigations were above applicable vapor intrusion screening levels or the explosion hazard action level.

- Borings EE-8, EE-9, and EE-10 were drilled/advanced at locations from 5 to 10 feet to the southeast, northwest, and north of boring EE-3 to delineate the dimensions of the inferred "oil pit" encountered in boring EE-3 in April 2018. No oil, oily sludge, or oil saturated soil were encountered in the three borings. No oil, oily sludge, or oil saturated soil were encountered in EFI Global boring B2 advanced at a location approximately 5 feet east of boring EE-3, although strong hydrocarbon odor and gray discolored soil were encountered. Data collected from these borings suggest the "oil pit" is of restricted lateral extent within the area defined by the four borings.

4.2 Conclusions and Recommendations

Following are conclusions drawn from the findings of the current and previous investigations.

- Historic oil well H. Rogalske 1-1 is likely located near the southeastern corner of the site beneath the driveway and near the detached garage at 418 Firmin Street. Lines of evidence supporting this conclusion include the available DOGGR records for the well, the presence of the "oil pit" beneath the driveway (boring EE-3), the presence of a magnetic anomaly adjacent to boring EE-3, and the detection of very high levels of gasoline-range petroleum hydrocarbons and methane in soil vapor at nearby EESV-4.

- The presence and location of historic oil well H. Rogalske 2A in the northwestern corner of 426 Firmin Street is less certain. Historic maps available at DOGGR show the well in this area of the site and a weak magnetic anomaly was found in the immediate vicinity.

- The presence and location of historic oil well H. Rogalske 3 at the southeastern edge of 426 Firmin Street is uncertain. An electromagnetic anomaly was identified in this area during a previous geophysical survey; however, DOGGR plots the well location on an adjacent property, and the inferred location is very near a steep slope, which would appear to be a less likely location to place a well.

- Except at 418 Firmin Street, the vertical distribution of diesel- and motor-oil-range petroleum hydrocarbons in soil and bedrock beneath the site is not indicative of historic surface releases. No detectable concentrations to low concentrations are present in shallow soil, elevated and sometimes increasing concentrations are present in deeper soil/bedrock, and the highest concentrations are present at the total depths of some borings. This trend of shallower low concentration to deeper high concentration suggests naturally occurring petroleum is present in the bedrock underlying the site.

- The presence of the "oil pit" at boring EE-3, the elevated petroleum hydrocarbon concentrations detected in shallow soil at nearby boring B2, and the higher diesel and motor oil concentrations in shallower soil at boring EE-8 suggest some impact from surface releases in the vicinity of well H. Rogalske 1-1.

- Human health risk from direct exposure to elevated concentrations of the three ranges of petroleum hydrocarbons would appear to be low as these elevated concentrations are primarily present in the deeper (15 feet and greater below the ground surface) soil and bedrock underlying the site.

- Impact to ground water of potential beneficial use from historic on-site oil field surface releases would appear to be unlikely as deeper subsurface petroleum hydrocarbons detected are likely naturally occurring and a ground-water basin does not underlie the site.

- High concentrations of gasoline-range petroleum hydrocarbons and methane in the shallow soil vapor at probe EESV-4 suggest potential leakage of these gases from well H. Rogalske 1-1. The oil and oily sludge in the "oil pit" might also be contributing to the high vapor concentrations. These elevated concentrations present a potential vapor

intrusion health risk and a potential explosion hazard in the southeastern corner of the site.

- The lateral dimensions of the "oil pit" appear to be small, possibly 10 feet or less in length and width. The depth of the pit is estimated to be 8 feet below grade and the depth of impact from the oil in the pit at approximately 15 feet below grade.

Based on the above conclusions and the understanding that Decro Corporation plans to redevelop the site with a multi-story residential building, Essel offers the following recommendations for near future actions.

- Perform exploratory excavation in the three areas of the site where historic oil wells are suspected to be present. Excavation should be performed in a 20- by 20-foot-square area in the northwestern corner of 426 Firmin Street, a 10- by 20-foot rectangular area along the eastern edge of 426 Firmin Street, and a 15- by 20-foot rectangular area under the driveway and between the house and detached garage at 418 Firmin Street.

- Prepare and submit to DOGGR an Application for Construction Site Well Review and Notice(s) of Intention for the three potential historic oil wells at the site.

- Prepare a design for a methane mitigation system to be installed beneath the future building. The design should conform to the provisions of City of Los Angeles Ordinance No. 175790 and applicable methane mitigation standards of the Los Angeles Department of Building and Safety.

Recommendations for subsequent actions include the following.

- Prepare a Site Management Plan for the planned development. This plan will address health and safety measures; characterization of soil to be disposed off-site; characterization, removal, and disposal of oil and oily waste encountered in boring EE-3, dust and organic vapor control measures, air monitoring as might be required, and contingency measures to be taken if unanticipated subsurface conditions are encountered.

- Abandon any historic oil wells identified at the site during the exploratory excavation according to the permit requirements of DOGGR. Site structures will very likely need to be removed and some grading performed before well abandonment to allow access to the well(s) and room for well drilling and associated equipment.

- Excavate, remove, and dispose of the oil, oily sludge, and oil saturated soil of the "oil pit" (vicinity of boring EE-3) located at 418 Firmin Street. Further characterize the excavated materials, as needed, according to the requirements of the selected disposal facility.

Limitations to this investigation are included in Appendix G.

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TABLE 1
Concentrations of Organic Compounds in Soil Samples
418, 426, and 430 Firmin Street, Los Angeles, California

Boring Number	Date Sampled	Sample Designation	Sample Depth (feet)	Total Petroleum Hydrocarbons				Volatile Organic Compounds (VOCs)														
				Gasoline C4-C12	Diesel C9-C22	Motor Oil C23-C32	Motor Oil C33-C36	B	T	E	m,p-X	o-X	MTBE	Naphth	TBA	n-Butyl	s-Butyl	t-Butyl	IP benzene	n-P benzene	All Other VOCs
October 2017 Subsurface Investigation (EFI Global, Inc.)																						
B-1	10/4/2017	B1-S-2	2	--	**44.0**	**439**	**147**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-2	10/4/2017	B2-S-2	2	--	**5,790**	**4,620**	**341**	**0.00321**	<0.0020	**0.00802**	<0.0020	<0.0020	<0.0040	**0.00448**	**0.0436**	<0.0040	**0.0128**	**0.00741**	**0.031**	**0.00862**	ND <0.0020 to <0.080
B-3	10/4/2017	B3-S-10	10	--	**11,500**	**7,260**	**348**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/4/2017	B3-S-20	20	--	**6,680**	**7,520**	**375**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-4	10/4/2017	B4-S-10	10	--	**3,040**	**2,770**	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
				Gasoline C4-C12	**Diesel C13-C22**	**Motor Oil C23-C32**	**Motor Oil C33-C36**															
B-2	10/4/2017	B2-S-25	25	**14.0**	**3,160**	**3,240**	**320**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-5	10/4/2017	B5-S-15	15	<0.50	**21.3**	**135**	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B-6	10/4/2017	B6-S-5	5	<0.50	<2.5	<100	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
March 2018 Subsurface Investigation (Essel Environmental Engineering & Consulting)																						
				Gasoline C6-C12	**Diesel C13-C28**	**Motor Oil C23-C32**	**Motor Oil C29-C40**															
EE-1	4/2/2018	EE1-7	7	<0.50	**13**	--	<10	<0.0060	<0.0060	<0.0060	<0.012	<0.0060	--	<0.0060	--	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	ND <0.0060 to <0.012
	4/2/2018	EE1-18.5	18½	<0.50	<10	--	<10	<0.0073	<0.0073	<0.0073	<0.015	<0.0073	--	<0.0073	--	<0.0073	<0.0073	<0.0073	<0.0073	<0.0073	ND <0.0073 to <0.015
EE-2	4/2/2018	EE2-7	7	<0.50	<10	--	<10	<0.0059	<0.0059	<0.0059	<0.012	<0.0059	--	<0.0059	--	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	ND <0.0059 to <0.012
	4/2/2018	EE2-19.5	19½	<0.50	**330**	--	**260**	<0.0080	<0.0080	<0.0080	<0.016	<0.0080	--	<0.0080	--	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	ND <0.0080 to <0.016
EE-3	4/2/2018	EE3-10	10	**5.5**	**1,300**	--	**870**	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	**0.019**	<0.0050	ND <0.0050 to <0.010
	4/2/2018	EE3-19	19	**5.3**	**900**	--	**1,900**	**0.0075**	<0.0058	**0.010**	<0.012	<0.0058	--	<0.0058	--	<0.0058	<0.0058	<0.0058	**0.025**	<0.0058	ND <0.0058 to <0.012
October 2018 Subsurface Investigation (Essel Environmental Engineering & Consulting)																						
				Gasoline C6-C12	**Diesel C13-C28**	**Motor Oil C23-C32**	**Motor Oil C29-C40**															
EE-4	10/9/2018	S-5-EE4	5	<10	**16**	--	**28**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/9/2018	S-10-EE4	10	<10	**97**	--	**540**	<0.0050	**0.0012**	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.0099
	10/9/2018	S-15-EE4	15	<10	**400**	--	**1,100**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/9/2018	S-25-EE4	25	**15**	**2,300**	--	**2,700**	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.0099
	10/9/2018	S-40-EE4	40	**12**	**1,200**	--	**1,600**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/9/2018	S-50-EE4	50	**35**	**3,800**	--	**4,300**	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.0099
EE-5	10/9/2018	S-5-EE5	5	<10	<10	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/9/2018	S-10-EE5	10	<10	<10	--	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	--	<0.0050	--	<0.0050	<0.0050	**0.0014**	<0.0050	<0.0050	ND <0.0050 to <0.010
	10/9/2018	S-15-EE5	15	**16**	**270**	--	**640**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/9/2018	S-20-EE5	20	**45**	**3,600**	--	**4,800**	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.0099
	10/9/2018	S-25-EE5	25	**20**	**3,000**	--	**4,100**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/9/2018	S-35-EE5	35	**22**	**3,100**	--	**4,400**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/9/2018	S-45-EE5	45	**24**	**3,400**	--	**4,300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/9/2018	S-50-EE5	50	**55**	**7,500**	--	**11,000**	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.0099
EE-6	10/9/2018	S-5-EE6	5	<10	<10	--	<10	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	**0.00063**	**0.00067**	**0.00046**	<0.0050	ND <0.0050 to <0.0099
	10/9/2018	S-10-EE6	10	<10	<10	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/9/2018	S-15-EE6	15	<10	<10	--	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.010
	10/9/2018	S-20-EE6	20	<10	**23**	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/9/2018	S-30-EE6	30	**87**	**5,500**	--	**9,800**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/9/2018	S-45-EE6	45	**31**	**2,300**	--	**3,500**	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.0099
	10/9/2018	S-50-EE6	50	**81**	**3,900**	--	**4,900**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Residential Screening Levels																						
SFBRWQCB-Health Risk Direct Exposure				**740**	**230**	--	**11,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SFBRWQCB-Nuisance Odors				**100**	**500**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
USEPA/DTSC-Health Risk Direct Exposure				--	--	--	--	**0.33**	**1,100**	**5.8**	**550**	**650**	**47**	**3.8**	--	**1,200**	**2,200**	**2,200**	**1,900**	**3,800**	**Chemical Specific**	

See notes on page 2 of 2.

TABLE 1
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418, 426, and 430 Firmin Street, Los Angeles, California

Boring Number	Date Sampled	Sample Designation	Sample Depth (feet)	Total Petroleum Hydrocarbons				Volatile Organic Compounds (VOCs)													
				Gasoline C6-C12	Diesel C13-C28	Motor Oil C23-C32	Motor Oil C29-C40	B	T	E	m,p-X	o-X	MTBE	Naphth	TBA	n-Butyl	s-Butyl	t-Butyl	IP benzene	n-P benzene	All Other VOCs
October 2018 Subsurface Investigation (Essel Environmental Engineering & Consulting)																					
EE-7	10/10/2018	S-5-EE7	5	<10	<10	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/10/2018	S-10-EE7	10	<10	**100**	--	**130**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/10/2018	S-15-EE7	15	**11**	**1,200**	--	**2,400**	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.0099
	10/10/2018	S-20-EE7	20	**25**	**2,900**	--	**4,200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/10/2018	S-30-EE7	30	**27**	**4,600**	--	**8,200**	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.0099
	10/10/2018	S-45-EE7	45	**58**	**7,600**	--	**12,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/10/2018	S-50-EE7	50	**16**	**2,200**	--	**3,000**	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.0099
EE-8	10/11/2018	S-5-EE8	5	<10	<10	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/11/2018	S-10-EE8	10	**32**	**19**	--	<10	<0.0050	<0.0050	**0.00080**	<0.010	<0.0050	--	**0.0031**	--	<0.0050	**0.0023**	**0.0016**	**0.0052**	**0.00078**	ND <0.0050 to <0.010
	10/11/2018	S-15-EE8	15	**270**	**110**	--	**640**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/11/2018	S-21½-EE8	21½	**1,200**	**2,900**	--	**6,700**	**0.011**	<0.0050	**0.047**	<0.010	<0.0050	--	<0.0050	--	<0.0050	**0.019**	**0.022**	**0.10**	**0.019**	ND <0.0050 to <0.010
	10/11/2018	S-30-EE8	30	**2,400**	**6,600**	--	**11,000**	**0.030**	<0.0050	**0.091**	<0.099	<0.0050	--	<0.0050	--	<0.0050	**0.070**	**0.071**	**0.22**	**0.035**	ND <0.0050 to <0.010
	10/11/2018	S-41½-EE8	41½	**550**	**7,400**	--	**12,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/11/2018	S-51½-EE8	51½	**320**	**8,000**	--	**12,000**	**0.00095**	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.0099
EE-9	10/11/2018	S-5-EE9	5	<10	<10	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/11/2018	S-10-EE9	10	**66**	**15**	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/11/2018	S-15-EE9	15	**190**	**82**	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/11/2018	S-19½-EE9	19½	**450**	**1,300**	--	**2,000**	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	**0.0017**	**0.0019**	**0.011**	<0.0050	ND <0.0050 to <0.0099
EE-10	10/11/2018	S-5-EE10	5	<10	<10	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/11/2018	S-10-EE10	10	**220**	**83**	--	**810**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/11/2018	S-15-EE10	15	**290**	**190**	--	**1,200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/11/2018	S-19½-EE10	19½	**260**	**2,000**	--	**2,700**	**0.0016**	<0.0050	<0.0050	<0.010	<0.0050	--	<0.0050	--	<0.0050	**0.0017**	**0.0019**	**0.011**	<0.0050	ND <0.0050 to <0.010
EE-11	10/12/2018	S-5-EE11	5	<10	<10	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/2018	S-16½-EE11	16½	**140**	**9.2**	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/2018	S-26½-EE11	26½	**270**	**2,300**	--	**3,000**	**0.0043**	<0.0050	**0.0017**	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	**0.00095**	<0.0050	ND <0.0050 to <0.0099
	10/12/2018	S-30-EE11	30	<10	**530**	--	**870**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/2018	S-51½-EE11	51½	<10	**4,800**	--	**5,400**	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.010
EE-12	10/12/2018	S-5-EE12	5	<10	<10	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/2018	S-10-EE12	10	<10	<10	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/2018	S-15-EE12	15	<10	**55**	--	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/2018	S-30-EE12	30	<10	**380**	--	**360**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/2018	S-40-EE12	40	<10	**360**	--	**400**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/2018	S-51½-EE12	51½	**310**	**11,000**	--	**18,000**	<0.0050	<0.0050	<0.0050	<0.0099	<0.0050	--	<0.0050	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	ND <0.0050 to <0.0099
Residential Screening Levels																					
SFBRWQCB-Health Risk Direct Exposure				**740**	**230**	--	**11,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SFBRWQCB-Nuisance Odors				**100**	**500**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
USEPA/DTSC-Health Risk Direct Exposure				--	--	--	--	**0.33**	**1,100**	**5.8**	**550**	**650**	**47**	**3.8**	--	**1,200**	**2,200**	**2,200**	**1,900**	**3,800**	**Chemical Specific**

Analytical results and screening levels are in milligrams per kilogram = parts per million.

Detectable concentrations are in bold font and shaded gray. Detectable concentrations greater than applicable environmental screening levels are shaded yellow.

BTEX = benzene, toluene, ethylbenzene, total xylenes

MTBE = methyl tertiary butyl ether

Naphth = naphthalene

TBA = tert butyl alcohol

n-Butyl = n-butylbenzene

s-Butyl = sec butylbenzene

t-Butyl = tert butylbenzene

IP benzene = isopropyl benzene

n-P benzene = n-propyl benzene

Sample designations: B6-S-5 = Boring number- Soil - Depth sample collected below the ground surface

EE3-19 = Boring number - Depth sample collected below the ground surface

< = less than the laboratory reporting limit shown.

-- = not analyzed or not available.

SFBRWQCB = San Francisco Bay Regional Water Quality Control Board

USEPA/DTSC = United States Environmental Protection Agency/California Department of Toxic Substances Control

TABLE 2
Concentrations of Inorganic Elements in Soil Samples
418, 426, and 430 Firmin Street, Los Angeles, California

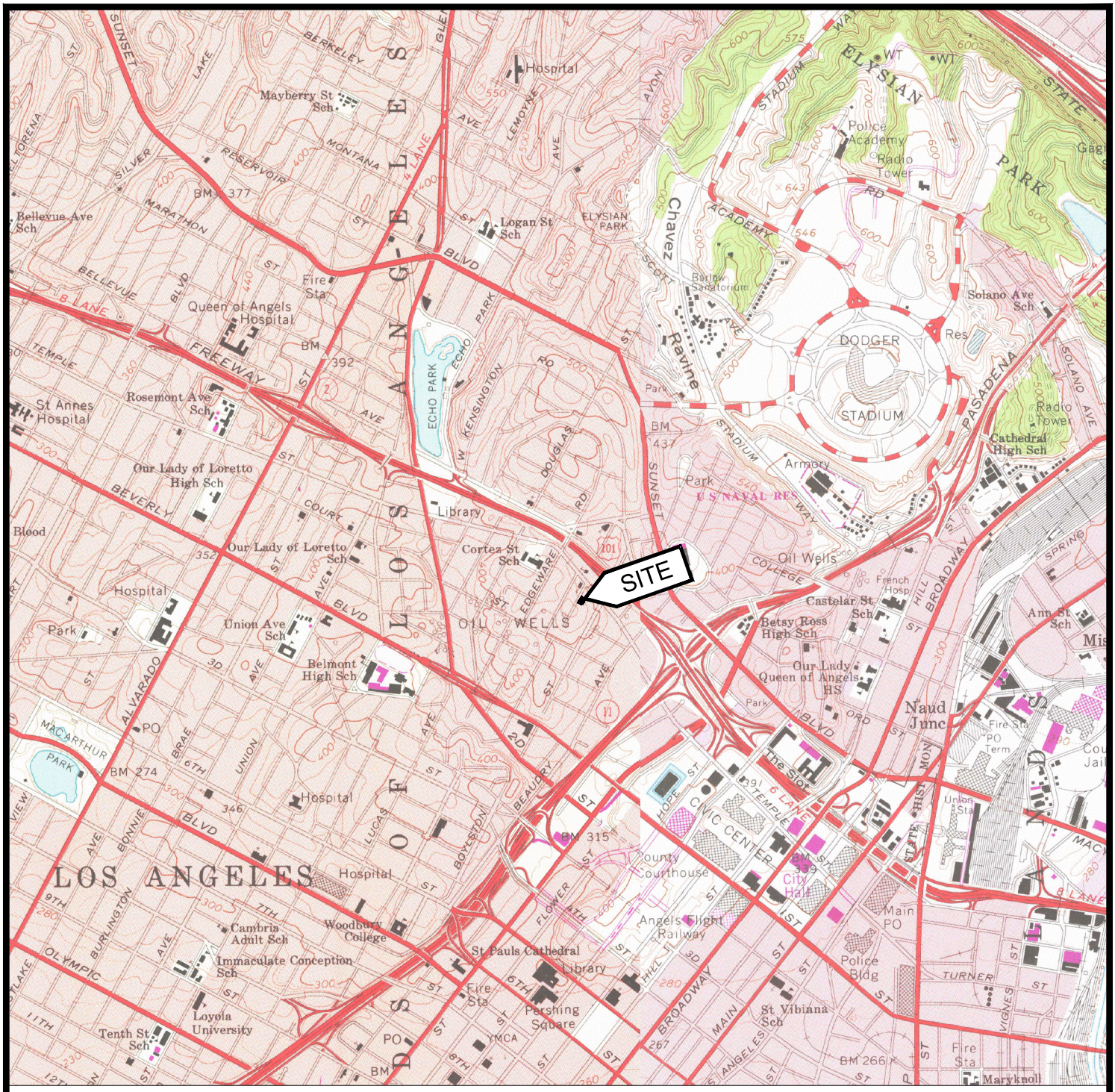
Boring Number	Date Sampled	Sample Number	Sample Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cr III/Cr VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
2017 Subsurface Investigation (EFI Global, Inc.)																				
B-1	10/4/17	B1-S-2	2	<2.0	**10.9**	**283**	<1.0	<1.0	**20.1**	**14.0**	**34.8**	**54.0**	**0.131**	**2.53**	**33.0**	<2.0	<1.0	<2.0	**47.0**	**106**
B-2	10/4/17	B2-S-2	2	<2.0	**6.84**	**310**	<1.0	<1.0	**15.7**	**10.1**	**21.7**	**8.67**	<0.100	<1.00	**19.8**	<2.0	<1.0	<2.0	**31.7**	**39.8**
	10/4/17	B2-S-25	25	<2.0	**9.28**	**202**	<1.0	**1.08**	**25.8**	**10.7**	**34.1**	**6.29**	**0.114**	**3.13**	**29.1**	**2.03**	<1.0	<2.0	**48.0**	**65.9**
B-3	10/4/17	B3-S-10	10	<2.0	**5.58**	**146**	<1.0	<1.0	**19.4**	**7.35**	**20.9**	**9.14**	<0.100	**1.27**	**13.0**	<2.0	<1.0	<2.0	**38.5**	**51.6**
	10/4/17	B3-S-20	20	<2.0	**12.7**	**171**	<1.0	**1.10**	**21.3**	**12.0**	**26.2**	**5.33**	<0.100	**9.87**	**37.1**	<2.0	<1.0	<2.0	**41.0**	**66.5**
B-4	10/4/17	B4-S-10	10	<2.0	**5.94**	**259**	<1.0	**1.72**	**16.8**	**9.35**	**34.3**	**5.32**	**0.100**	**1.43**	**27.1**	<2.0	<1.0	<2.0	**32.9**	**65.5**
B-5	10/4/17	B5-S-15	15	<2.0	**3.53**	**188**	<1.0	<1.0	**17.9**	**5.39**	**13.1**	**7.70**	**0.117**	**5.40**	**7.90**	<2.0	<1.0	<2.0	**30.2**	**34.1**
B-6	10/4/17	B6-S-5	5	<2.0	**9.34**	**250**	<1.0	<1.0	**27.9**	**12.70**	**35.9**	**15.6**	<0.100	**4.09**	**31.9**	<2.0	<1.0	<2.0	**52.8**	**76.2**
Residential Screening Levels																				
USEPA/DTSC				**31**	**Bkg**	**15,000**	**15**	**5.2**	**36,000/0.3**	**23**	**3,100**	**80**	**1.0**	**390**	**15,000**	**390**	**390**	**0.78**	**390**	**23,000**
Background (DTSC)					**12**															

Soil results and ESLs are in milligrams per kilogram = parts per million.
Detectable concentrations are in boldface type. Concentrations greater than corresponding screening levels are highlighted yellow.
< = less than the laboratory reporting limit shown.
Bkg = background concentration
Sample Designation: B6-S-5 = Boring number - Soil - Depth sample collected below the ground surface
USEPA/DTSC = United States Environmental Protection Agency/California Department of Toxic Substances Control

TABLE 3
Concentrations of Volatile Organic Compounds in Soil-Vapor Samples
418, 426, and 430 Firmin Street, Los Angeles, California

Soil Probe	EE-1		EE-2		EE-3	EESV-1		EESV-2	EESV-3	EESV-4	Health Risk Screening Levels	
Date	04/03/18		04/03/18		04/03/18	04/03/18		10/11/18	10/11/18	10/11/18	Future Residence	
Sample Number	EE1-SV10	EE1-SV20	EE2-SV7	EE2-SV20	EE3-SV7	EESV1-10	EESV1-20	EESV-2	EESV-3	EESV-4	SFBRWQCB	USEPA/DTSC
Depth of Sample (feet)	10	20	7	20	7	10	20	6.5	6.5	6.5		
Analyte												
Benzene	<160	<160	<160	<160	<160	<160	<160	**3.5**	<3.3	<160		**97**
Toluene	<190	<190	<190	**110 J**	<190	<190	<190	<3.8	<3.8	<190		**310,000**
Ethylbenzene	<220	<220	<220	<220	<220	<220	<220	<4.4	<4.4	<220		**1,100**
m,p-xylene	<220	**53 J**	<220	**85 J**	<220	<220	<220	**16**	**4.7 J**	<220		**100,000**
o-xylene	<220	<220	<220	**41 J**	<220	<220	<220	<4.4	<4.4	<220		**100,000**
Cyclohexane	<170	<170	<170	**8,100**	**63,000**	<170	**3,000**	<3.5	<3.5	<170		**6,300,000**
Heptane	<210	<210	<210	<210	<210	<210	<210	<4.2	**2.8 J**	<210		**420,000**
Hexane	<180	<180	<180	**1,100**	<180	<180	**800**	<3.6	<3.6	<180		**730,000**
Acetone	<120	<120	<120	<120	<120	<120	<120	**170**	**43**	<120		**32,000,000**
Carbon disulfide	<160	<160	**160**	<160	<160	**70 J**	<160	<3.2	<3.2	<160		**730,000**
Chloroform	<250	<250	<250	<250	<250	<250	<250	**100**	<5.0	<250		**120**
2-propanol (isopropyl alcohol)-tracer	**3,800,000**	**11,000,000**	**1,900**	**1,100,000**	<130	<130	**2,900,000**	**77**	**48**	<130		**NA**
1,1-difluoroethane (Freon 152)-tracer	--	--	--	--	--	--	--	**1,500**	**6,500**	**1,300**		**NA**
Trichloroethene	<270	<270	<270	<270	<270	<270	**67 J**	<5.5	<5.5	<270		**480**
Vinyl acetate	<180	<180	<180	<180	<180	<180	<180	**890**	<3.6	<180		**210,000**
Gasoline range organics	<7170	<7,170	**1,900 J**	**15,200**	**116,000**	**17,800**	**9,410**	<7,170	<7,170	**6,750,000**	**50,000/300,000#**	**NA**
Methane (percent)	**0.000095**	**0.00057**	**0.0056**	**0.0099**	**0.011**	**0.0071**	**0.0075**	**0.1600**	<0.00079	**49**		**NA**
Methane (ppmv)	**0.95**	**5.7**	**56**	**99**	**110**	**71**	**75**	**1,600**	<7.9	**490,000**		**5,000**

Results and screening levels are in micrograms per cubic meter.
Detectable concentrations are in boldface type. Concentrations greater than applicable human health-risk screening levels for vapor intrusion are shaded yellow.
ppmv = parts per million by volume (methane results only).
< = less than the laboratory reporting limit shown.
J = estimated concentration greater than the method detection limit and less than the reporting limit.
= nuisance odors screening level/human health risk screening level.
NA = not applicable; not available
-- = not analyzed
Sample designation: EE3-SV7 = Boring number - Depth of soil vapor sample
SFBRWQCB = San Francisco Bay Regional Water Quality Control Board
USEPA/DTSC = United States Environmental Protection Agency/California Department of Toxic Substances Control



Scale: 0 2000 feet 4000 feet

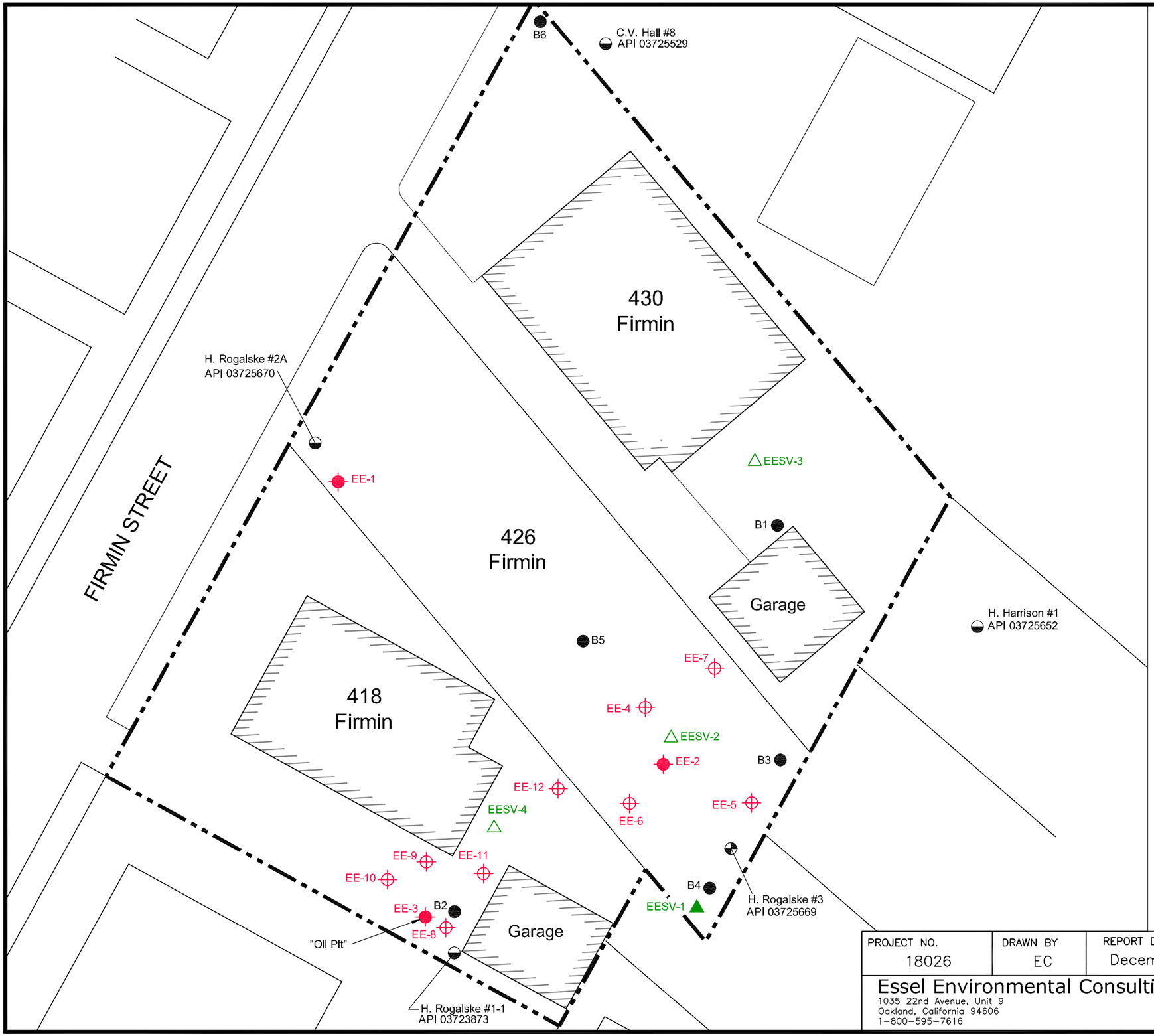
Source: USGS 7 1/2–Minute Quadrangles
Hollywood, California, 1994
Los Angeles, California, 1994

N

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	Site Unit MU	1

Fossil Environmental Consulting
1035 22nd Avenue, Suite 9
Oakland CA 94606
1–800–595–7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026



EXPLANATION

- APPROXIMATE PROPERTY BOUNDARY
- SITE DWELLING
- B6 — SOIL BORING LOCATION (EFI GLOBAL, 2017)
- EE-3 — SOIL BORING/VAPOR PROBE LOCATION (ESSEL, APRIL 2018)
- EE-12 — SOIL BORING LOCATION (ESSEL, OCTOBER 2018)
- EESV-1 — SOIL VAPOR PROBE LOCATION (ESSEL, APRIL 2018)
- EESV-4 — SOIL VAPOR PROBE LOCATION (ESSEL, OCTOBER 2018)
- SUSPECTED OIL WELL LOCATION WITH API NUMBER (DOGGR AND GEOPHYSICAL)
- SUSPECTED OIL WELL LOCATION WITH API NUMBER (DOGGR ONLY)
- API — AMERICAN PETROLEUM INSTITUTE
- DOGGR — DIVISION OF OIL, GAS & GEOTHERMAL RECOURCES (STATE OF CALIFORNIA)

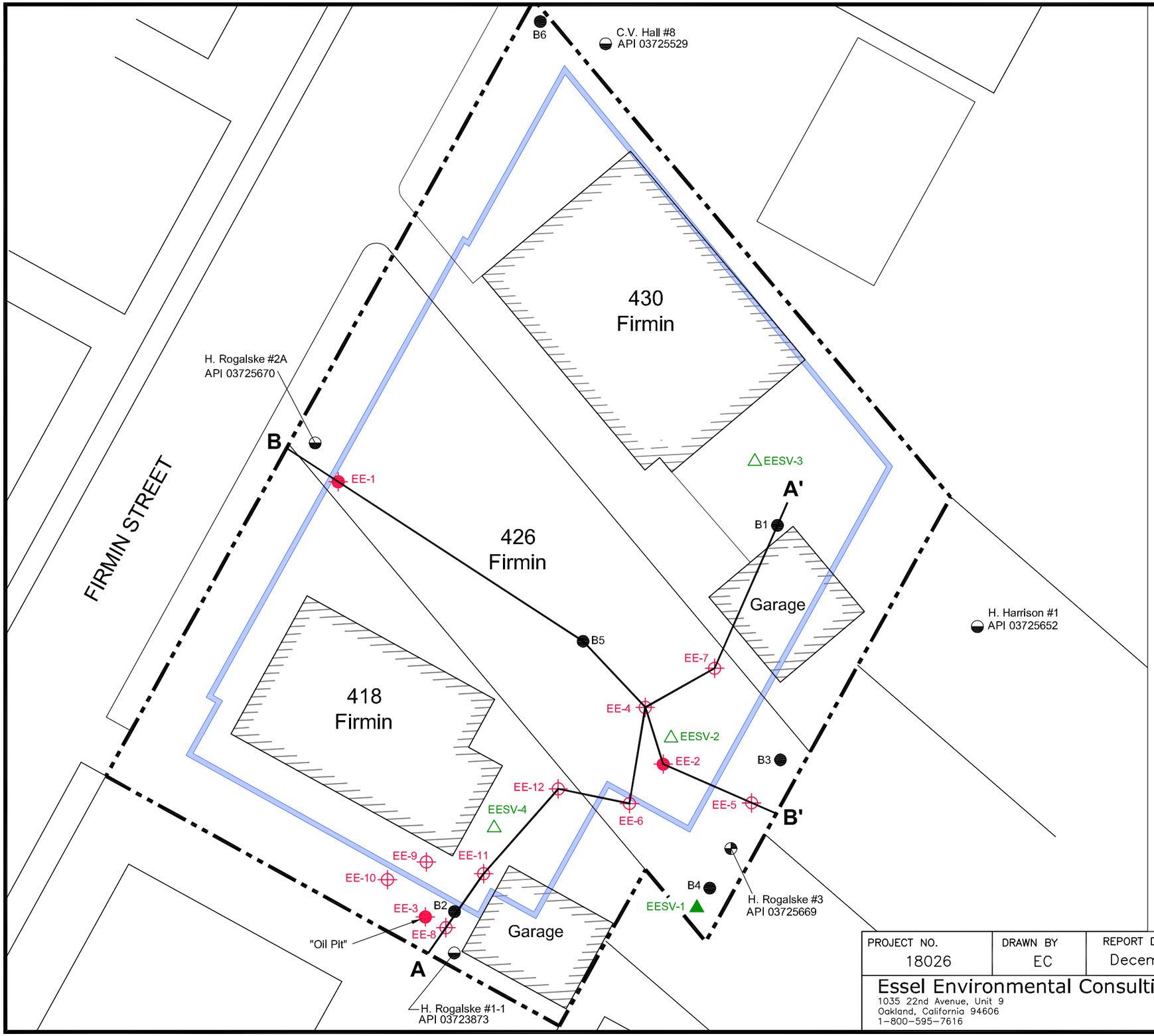
N

Scale: 0 20 feet 40 feet

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	Site Plan and Boring/ Vapor Probe Locations	2

Essel Environmental Consulting
1035 22nd Avenue, Unit 9
Oakland, California 94606
1-800-595-7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026



EXPLANATION

- APPROXIMATE PROPERTY BOUNDARY
- SITE DWELLING
- FOOTPRINT OF FUTURE BUILDING
- B6 — SOIL BORING LOCATION (EFI GLOBAL, 2017)
- EE-3 — SOIL BORING/VAPOR PROBE LOCATION (ESSEL, APRIL 2018)
- EE-12 — SOIL BORING LOCATION (ESSEL, OCTOBER 2018)
- EESV-1 — SOIL VAPOR PROBE LOCATION (ESSEL, APRIL 2018)
- EESV-4 — SOIL VAPOR PROBE LOCATION (ESSEL, OCTOBER 2018)
- SUSPECTED OIL WELL LOCATION WITH API NUMBER (DOGGR AND GEOPHYSICAL)
- SUSPECTED OIL WELL LOCATION WITH API NUMBER (DOGGR ONLY)
- API — AMERICAN PETROLEUM INSTITUTE
- DOGGR — DIVISION OF OIL, GAS & GEOTHERMAL RECOURCES (STATE OF CALIFORNIA)
- B — B' LOCATION OF CROSS SECTION

N

Scale: 0 20 feet 40 feet

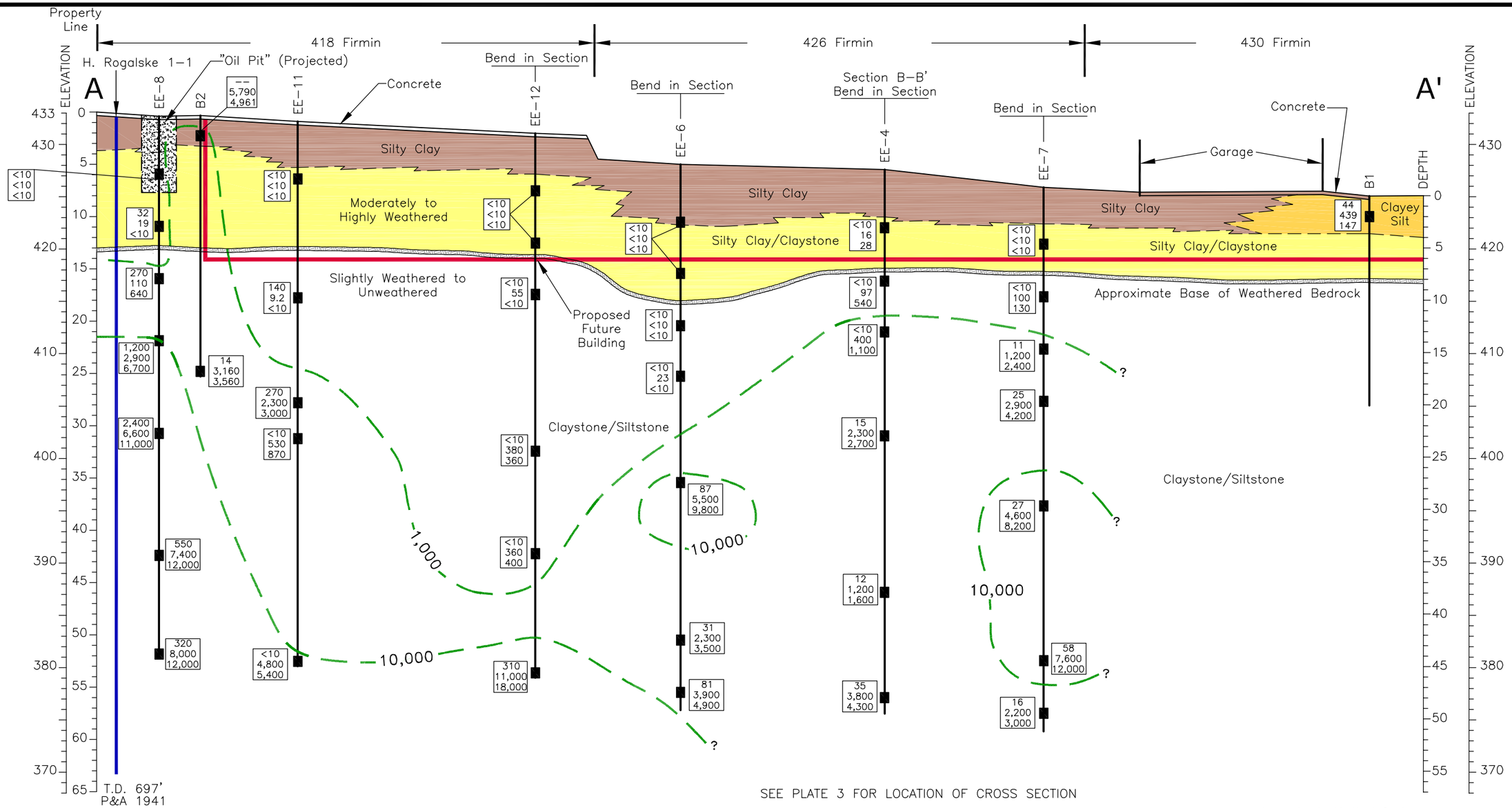
PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	December 2018

Essel Environmental Consulting
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Oakland, California 94606
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Locations of Cross Sections

418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE 3



SEE PLATE 3 FOR LOCATION OF CROSS SECTION

EXPLANATION

- ■ SOIL SAMPLE LOCATION
- 310 / 11,000 / 18,000 — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE / DIESEL / MOTOR OIL
- TOTAL PETROLEUM HYDROCARBON (TPH) CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM
- < LESS THAN
- -- NOT ANALYZED
- 10,000 — LINE OF EQUAL CONCENTRATION OF TOTAL TPH

P&A PLUGGED AND ABANDONED

T.D. TOTAL DEPTH

Approximate Vertical Scale
0 10 20
feet

Approximate Horizontal Scale
0 10 20
feet

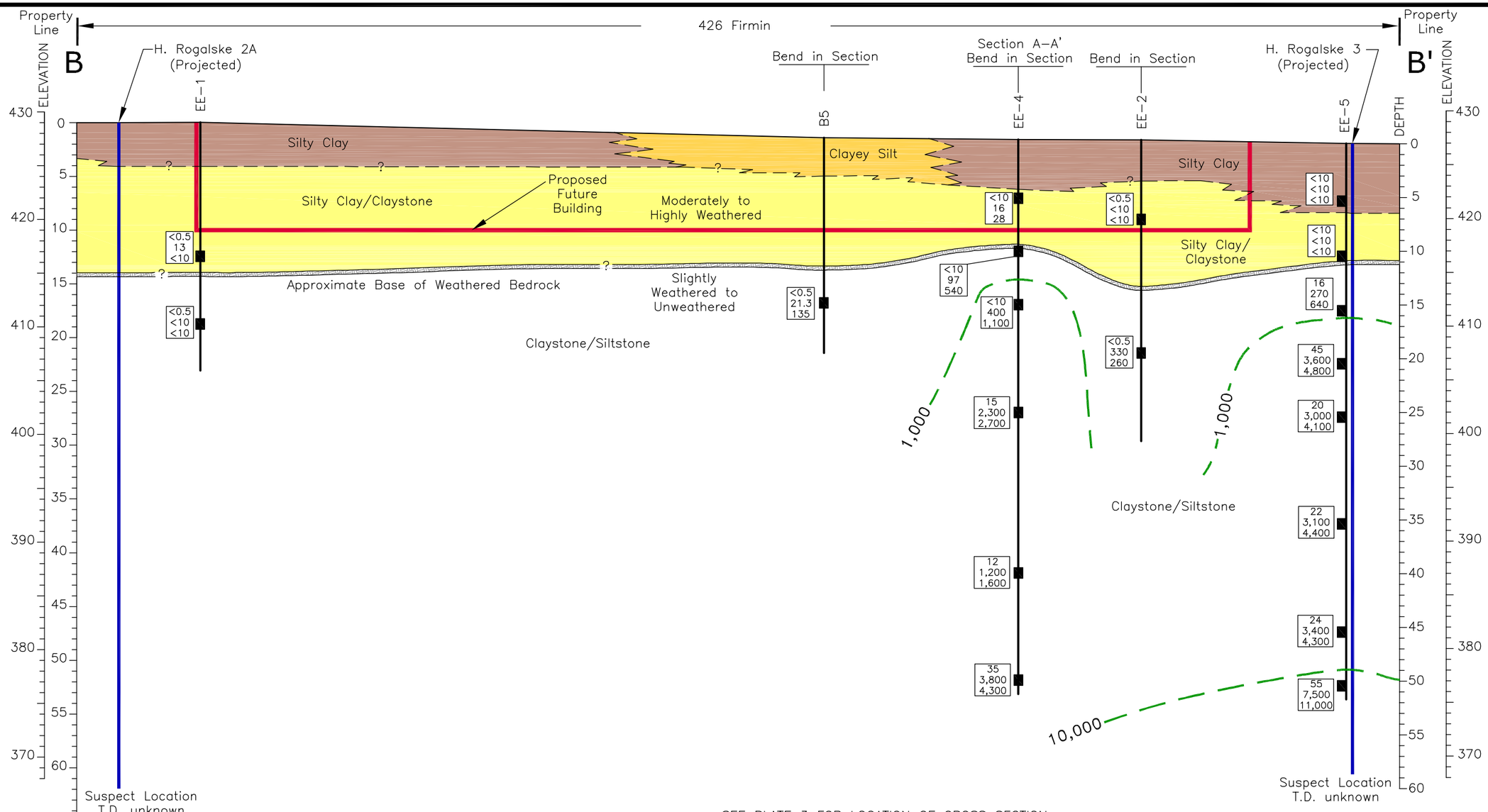
PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	December 2018

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San Francisco, California 94104
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Cross Section A - A'

418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE 4



SEE PLATE 3 FOR LOCATION OF CROSS SECTION

Approximate Vertical Scale
0 10 20
feet

Approximate Horizontal Scale
0 10 20
feet

EXPLANATION

■ SOIL SAMPLE LOCATION

55 / 7,500 / 11,000 — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE / TOTAL PETROLEUM HYDROCARBONS AS DIESEL / TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL

TOTAL PETROLEUM HYDROCARBON (TPH) CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM

< LESS THAN

10,000 — LINE OF EQUAL CONCENTRATION OF TOTAL TPH

T.D. TOTAL DEPTH

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	Cross Section B - B'	5

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San Francisco, California 94104
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418, 426, and 430 Firmin Street
Los Angeles, California 90026

APPENDIX A

GEOPHYSICAL SURVEY REPORT

Geophysical Investigation

Essel Environmental Consulting

Residences
418 – 430 Firmin Street
Los Angeles, California
Project #1810081C

spectrum geophysics
REVEALING THE SUBSURFACE
20434 Corisco Street
Chatsworth, California 91311
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Geophysical Investigation
Residences
418 – 430 Firmin Street
Los Angeles, California

Prepared For:
Essel Environmental Consulting
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October 26, 2018



_____

Charles Carter
California Professional Geophysicist, P.Gp. 1051

spectrum geophysics
REVEALING THE SUBSURFACE

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2.0 EQUIPMENT 3
3.0 METHODS AND FIELD PROCEDURES 4
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3.2 Ground Penetrating Radar 5
3.3 Electromagnetic Utility Location 5
4.0 RESULTS 6
4.1 Magnetics 6
5.0 LIMITATIONS 7
5.1 Magnetics 7



LIST OF FIGURES

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2	Site Map with Geophysical Interpretation – Area 1
3	Contour Map of Vertical Magnetic Gradient – Area 1
4	Site Map with Geophysical Interpretation – Area 2
5	Contour Map of Total Magnetic Field Intensity – Area 2
6	Site Map with Geophysical Interpretation – Area 3
7	Contour Map of Vertical Magnetic Gradient – Area 3



1.0 INTRODUCTION

Spectrum Geophysics conducted a geophysical investigation on October 8th, 2018 at the three properties located at 418, 426 and 430 Firmin Street in Los Angeles, California The purpose of the investigation was to locate abandoned steel cased oil wells. The areas of investigation, as designated by the Rodger Witham of Essel Environmental Consulting, were the open areas outside the homes and garages in each of the three properties. The survey area at 418 Fermin Street was the concrete covered area surrounding the house which had approximate dimensions of 55 feet by 95 feet. The 418 Fermin property will be referred to as Area 1. The 426 Fermin Street property was a soil covered vacant lot with dimensions of 30 feet by 130 feet and will be referred to as Area 2. Area 3 was comprised of the 40-foot by 110-foot concrete covered area northwest and southeast of the house located at 430 Fermin Street.

The expected surficial geology in the upper 20 feet of the survey area (maximum depth of geophysical investigation) was fine-grained Tertiary sediments consisting of sandstone, siltstone, mudstone or shale. There may also be artificial fill overlaying the Tertiary sediments within the survey areas. The depth to the water table was expected to be below the maximum depth of investigation, but moisture in the soil can contribute to corrosion of metallic survey targets.

According to information found on the DOGGR website at least two abandoned oil wells plot on the properties surveyed for this project. The abandonded oil well with API Number 03723873 was abandonded in the early 1940's and plots under the garage in Area 1 (418 Fermin St.). The upper 600 feet of casing may have been removed during the abandonment.

The abandonded oil well with the API Number 03725670 plots within the 426 Fermin St. property (Area 2). The abandonment record from 1936 states that the well was open for the top 27 feet. While the geopgraphic coordinates listed for this well plot within the survey area, the address listed for this well is on a North Parkman Street.

There are a few other abandonded wells that plot near the three properties surveyed for this project. The locations of these wells were plotted on Google Earth as *.kmz files from the geographic coordinates obtained from the DOGGR website and included in Figure 1 for reference.

2.0 EQUIPMENT

The equipment used in this investigation consisted of a Geometrics G-858 cesium-vapor magnetic gradiometer (G-858), a CST Magna-Trak 100 fluxgate magnetic gradiometer, a Sensors & Software "Noggin Smart Cart" ground penetrating radar (GPR) unit coupled to a 500-MHz antenna, a Fisher TW-6 M-Scope shallow-focus metal detector (M-Scope) and the RadioDetection RD4000 electromagnetic utility locator (RD4000). The magnetometers were used to search for the oil wells and the GPR and utility locating equipment were used to locate buried piping or obstructions near the proposed boring locations.

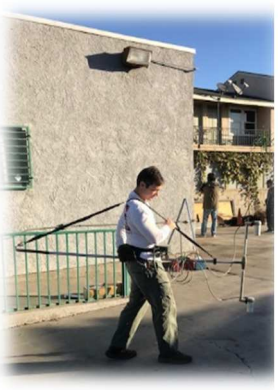
3.0 METHODS AND FIELD PROCEDURES

The following QA/QC measures were taken to ensure the equipment was working properly. The G-858 was allowed to warm up for approximately five minutes while a system test was run and the sensors gained sufficient signal strength. The battery level and memory space were also checked and found to be within acceptable levels. Significant anomalies identified in the contoured data were relocated with the G-858 in search mode or the fluxgate magnetometer to confirm the locations.

Prior to data acquisition, grids with 5-foot stations on 10-foot survey lines were created parallel and perpendicular to the house in Area 1 or the property fence between 426 and 430 Firmin Street for Areas 1 and 3. A survey chain with 5-foot markers was used to establish the survey lines and stations. Survey paint was used to mark the locations of each survey station on the ground. It should be noted that no magnetics data were collected outside of the blue dashed boundary identified on the site maps of each of the three survey areas.

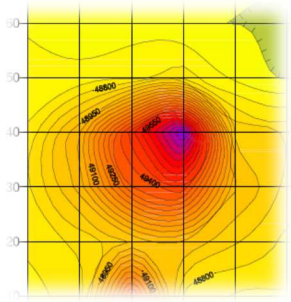
3.1 Magnetics

A Geometrics G-858 Cesium vapor magnetometer was used in an effort to identify significant magnetic anomalies that might be associated with massive buried ferromagnetic features, such as the steel casing from an abandoned oil well. The magnetometer used in this survey measures the earth's magnetic field intensity in nanoteslas (nT). The magnitude of the vertical magnetic gradient was also measured during this survey. The vertical gradient was calculated by taking the measurement from the bottom sensor, subtracting the reading from the top sensor and dividing by the sensor separation which was 1 meter. A very gradual change in the natural magnetic field is usually observed over small areas (a few acres) unless there are massive ferrous objects present. The shape and amplitude of a magnetic anomaly over a ferromagnetic object is dependent upon the geometry, mass, magnetic susceptibility of the object, depth to the object and the inclination of the earth's magnetic field in the survey area. Most magnetic anomalies from buried ferrous infrastructure like underground storage tanks (USTs) or pipes are dipolar with the positive portion of the dipole centered over the southern extent of the ferrous metal and the negative portion located to the north of the object. Buried vertical structures like metallic well casing generally produce broad monopolar anomalies.



Magnetic gradiometer

During this investigation, readings of the earth's total magnetic field and vertical magnetic gradient were taken, recorded and stored in the G-858 console at 0.5-second intervals along northwest-southeast survey lines spaced 5 feet apart within the established grids. A marker button was pressed when the sensors passed each 5-foot grid point and the data were interpolated between these points. This resulted in a 1.5-foot station spacing on average. These data were processed in the field and used to generate contour maps to assist in identifying anomalies that may be caused by buried vertically oriented ferromagnetic features of interest.



Typical anomaly associated with a buried steel-cased well.

A magnetic anomaly, typical of a steel cased well, is characterized by a regional monopolar magnetic high with a magnitude ranging from 100's to 1000's of nanoteslas above the background magnetic field. These circular monopoles can have a radius of 10 feet or more depending on several factors like total mass of the casing and depth to the well head.

3.2 Ground Penetrating Radar

GPR was used to locate utilities near proposed boring locations. During the GPR survey, an antenna containing both a transmitter and a receiver was pushed along the ground surface. The transmitter radiated short pulses of high-frequency electromagnetic energy (with a center frequency of 500 MHz for this survey) into the ground. As the radio waves propagated into the ground, these signals were reflected at boundaries with contrasting electrical conductivity. These reflected signals were then received at the antenna and displayed as vertical profiles on the GPR unit. Oil wells are usually too deep to be located with GPR in Southern California.



GPR Data Collection

3.3 Electromagnetic Utility Location

During this investigation, active electromagnetic (EM) utility-locating methods were used in order to identify sources of magnetic anomalies and to delineate the surface trace of detectable underground utilities near proposed borings. Active locating was initiated by conducting an EM signal at a known frequency (8 and 33 kHz for this site) on a conduit exposed at the surface. A receiver, tuned to these frequencies, was then used to locate the signal maxima (or surface trace) of the applied signal.

Passive locating was used to locate electrically conductive conduits energized by ambient radio frequencies (RF) that are often produced by 60 Hertz electrical, radio and communication transmissions. A receiver tuned to these frequencies can be used to locate the re-radiated signal emitted by the conductor (i.e., conduit).

The Fisher M-Scope metal detector was used to locate shallow buried metallic features near proposed boring locations. The M-Scope has a transmitter and a receiver at the ends of a short boom. The transmitter emits a radio-frequency source signal that induces a secondary magnetic field in metallic material in its immediate vicinity. The receiver measures the signal strength of this secondary magnetic field and emits an audible response, the volume and pitch of which increase in the presence of metallic material. The sensitivity of the M-Scope allows the operator to locate the lateral boundaries of a metallic object.

4.0 RESULTS

Site maps with geophysical interpretation are presented in Figure 2, Figure 4 and Figure 6 for Area 1, Area 2 and Area 3, respectively. Contour maps of the magnetic data acquired in Areas 1-3 are presented in Figure 3, Figure 5 and Figure 7.

4.1 Magnetics

The color scale in the contour maps of the total magnetic field intensity or the vertical magnetic gradient data shows the magnitudes of the measured values where yellow colors represent background readings (0 nT/m in magnetic gradient data and roughly 47,000 nT in total magnetic field data), deep green to blue colors represent measured values below background and orange to pink represent increasing values above background. Surface metal, especially objects that extend beyond the height of the magnetometer sensors, generally produce moderate to high-amplitude "negative" magnetic anomalies with readings below background in total magnetic field data. Surface metal may produce positive or negative anomalies in the vertical magnetic gradient data. The findings of the survey are discussed below.

Area 1

There are several moderate-amplitude anomalies in the vertical magnetic gradient data between the property boundary and the house. These anomalies are the result of surface metal such as the fences and the walls of the house. There is one high-amplitude magnetic peak centered at Line 10, Station 25. This anomaly may be the result of a metallic pipe that passes through the magnetic peak. The total magnetic field data were reviewed for Area 1 and while there is a positive monopole, the monopole is not as broad as expected for 100's of feet of metallic casing.

Area 2

The total magnetic field response is negative (below 46,000 nT) along the survey boundaries due to the metallic fencing. A couple of low-amplitude positive anomalies were located within Area 2. These anomalies may be the result of small buried metallic objects, but are not from 100's of feet of metallic casing. No broad magnetic highs were observed in the total magnetic field data acquired in Area 2. Therefore no oil wells with 100's of feet of metallic casing are expected within the survey limits.

Area 3

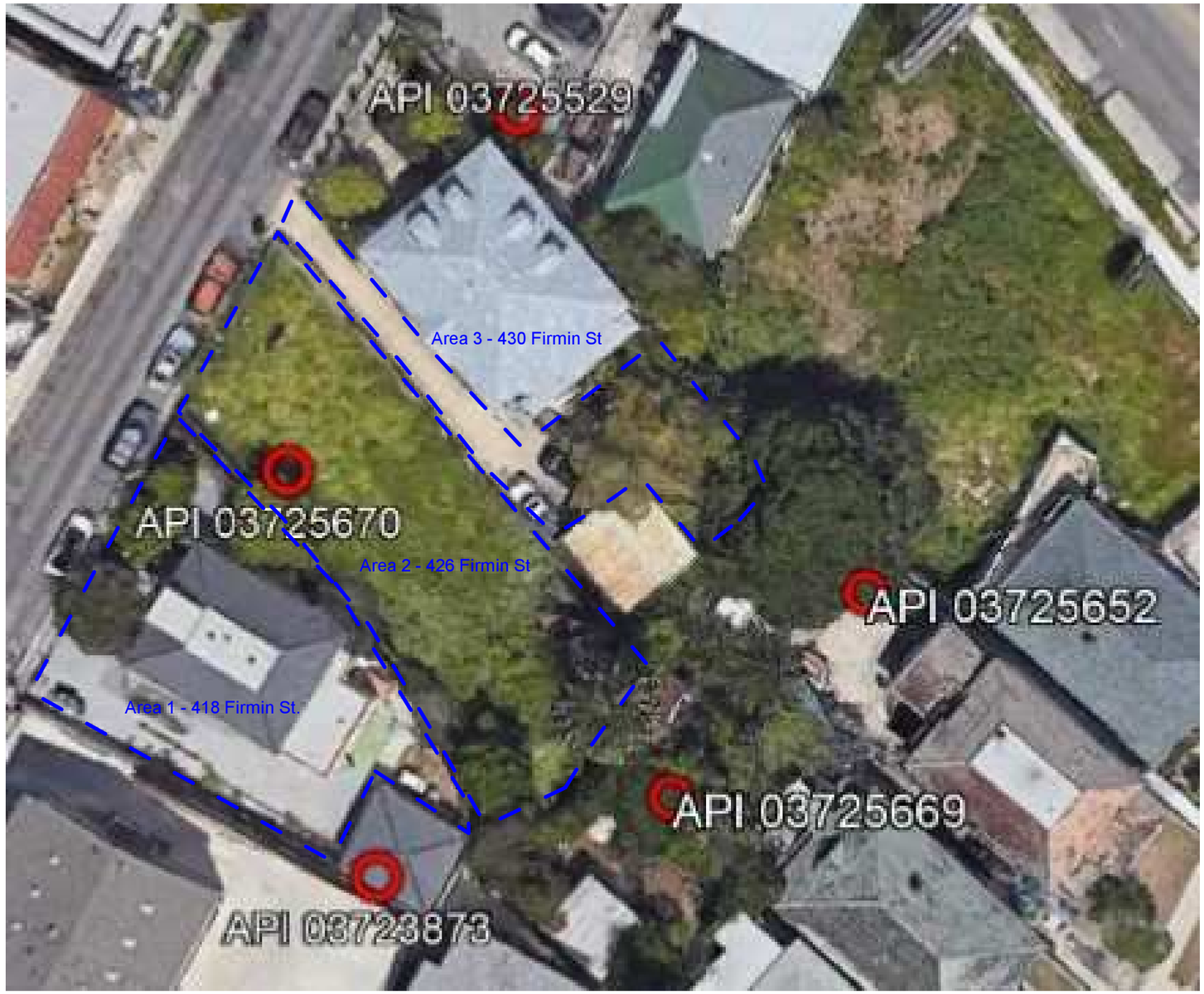
Due to the abundance of surface metal in Area 3 there are significant anomalies in the vertical magnetic gradient data along the perimeter of the survey area due to the fences, garage, house and other metallic obstructions in the back yard. There is one broad monopolar high with peak readings recorded at Line 25, Station 20. The total magnetic field data were used to determine the magnetic peak. This positive peak could be the result of the end of a pipe or from the metal in the garage. There is a gap in the data to the west of the magnetic peak due to the garage and the iron fence between the drive way and the back yard. Therefore it is unknown if this anomaly is a true magnetic monopole. An oil well is a potential source of this magnetic anomaly, but it is also likely that the anomaly is the result of the metallic pipe or the garage.

5.0 LIMITATIONS

The detection of subsurface objects and utilities is dependent upon acquiring reliable data with geophysical instruments above ground. These data may be interpreted as representative of subsurface objects. The magnetic field being measured, however, may be distorted by a number of factors including corrosion of metallic survey targets or proximity to other surface and subsurface structures.

5.1 Magnetics

It is reported that some casing may have been removed from the oil wells expected to be within the survey areas. Some older oil wells have stove pipe casing which is less massive and more susceptible to corrosion over time than the surface casing used today. If stove pipe casing is removed at the surface or is severely corroded, it may not be detectable with the magnetic method especially near massive objects like buildings. If enough casing is removed near the surface even modern casing may not be detectable if the distance between top of casing and the magnetometer sensor is too great, but 1000's of feet of casing can be detected with magnetics even if the well head is 25 feet below grade provided that there is not too much interference from surface metal. Total field magnetics surveys are subject to interference by induced magnetic fields associated with surface and subsurface cultural features that contain ferrous materials.



LEGEND

Area of Geophysical Investigation

Location of Oil Well (per DOGGR)

SPECTRUM GEOPHYSICS
"Revealing The Subsurface"
20434 CORISCO STREET
CHATSWORTH, CA 91311
(818) 886-4500
www.spectrum-geophysics.com

Site Location Map

1

PROJECT: Residential Properties
418 - 430 Firmin Street
Los Angeles, California

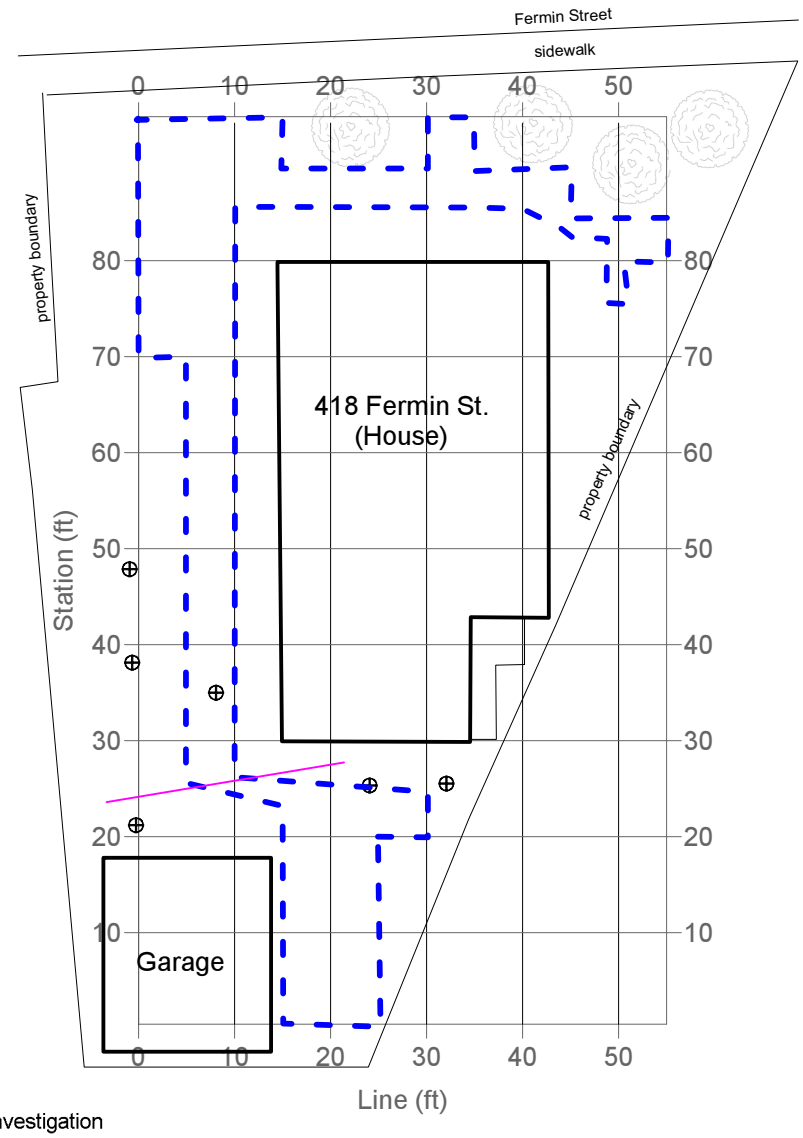
PREPARED FOR: Essel Environmental Consulting
San Francisco, California

PROJECT NO.: 1810081C

SCALE: Not to Scale

FIGURE BY: C. Carter

DATE: 10/26/18



LEGEND

- Area of Geophysical Investigation
- Metallic Line
- Trees
- ⊕ Proposed Boring Location

0 10 20
(feet)

SPECTRUM GEOPHYSICS "Revealing The Subsurface"
20434 Corisco Street
Chatsworth, California 91311
(818) 886-4500
www.spectrum-geophysics.com

Site Map with Geophysical Interpretation-Area 1

FIGURE 2

PROJECT: Private Residence
418 Firmin Street
Los Angeles, California

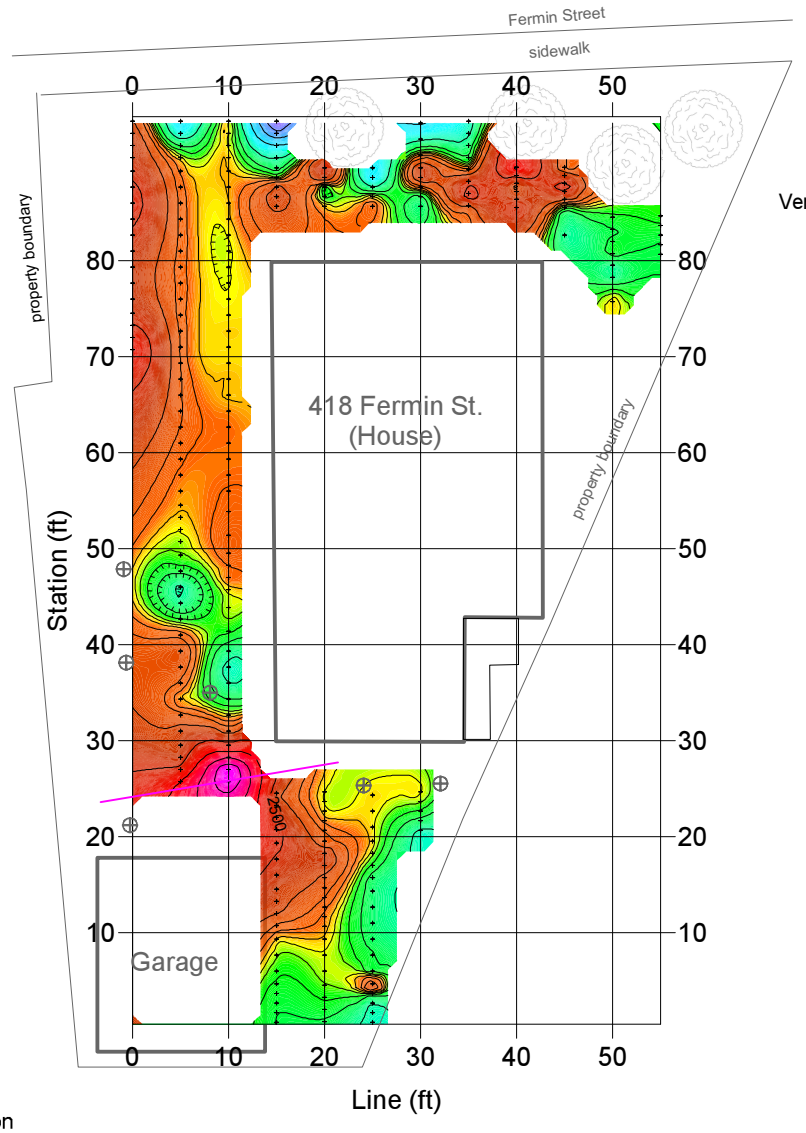
PREPARED FOR: Essel Environmental Consulting
San Francisco, California

PROJECT NO. 1810081C

SCALE: 1 inch = 20 feet

FIGURE BY: C. Carter

DATE: 10/26/18



LEGEND

- + Magnetic Survey Station
- Metallic Line
- Trees
- ⊕ Proposed Boring Location

0 10 20
(feet)

SPECTRUM GEOPHYSICS
"Revealing The Subsurface"

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Chatsworth, California 91311
(818) 886-4500
www.spectrum-geophysics.com

Contour Map of Vertical Magnetic Gradient-Area 1

FIGURE 3

PROJECT: Private Residence
418 Firmin Street
Los Angeles, California

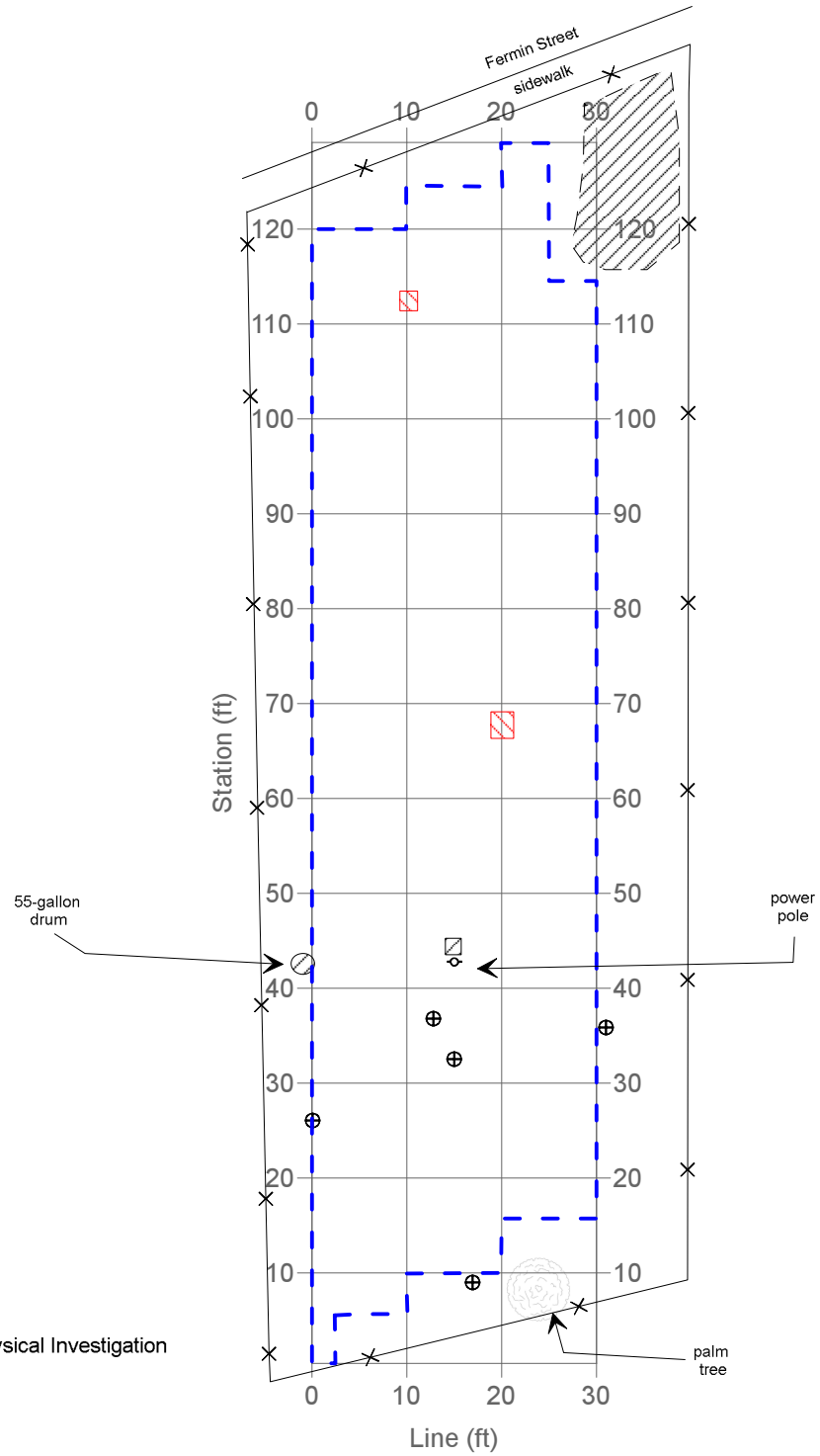
PREPARED FOR: Essel Environmental Consulting
San Francisco, California

PROJECT NO. 1810081C

SCALE: 1 inch = 20 feet

FIGURE BY: C. Carter

DATE: 10/26/18



LEGEND

- Area of Geophysical Investigation
- Buried Metal
- Surface Metal
- Proposed Boring Location
- Fence

0 10 20 (feet)

SPECTRUM GEOPHYSICS "Revealing The Subsurface"

20434 Corisco Street
Chatsworth, California 91311
(818) 886-4500
www.spectrum-geophysics.com

Site Map with Geophysical Interpretation-Area 2

PROJECT: Vacant Lot
426 Firmin Street
Los Angeles, California

FIGURE: 4

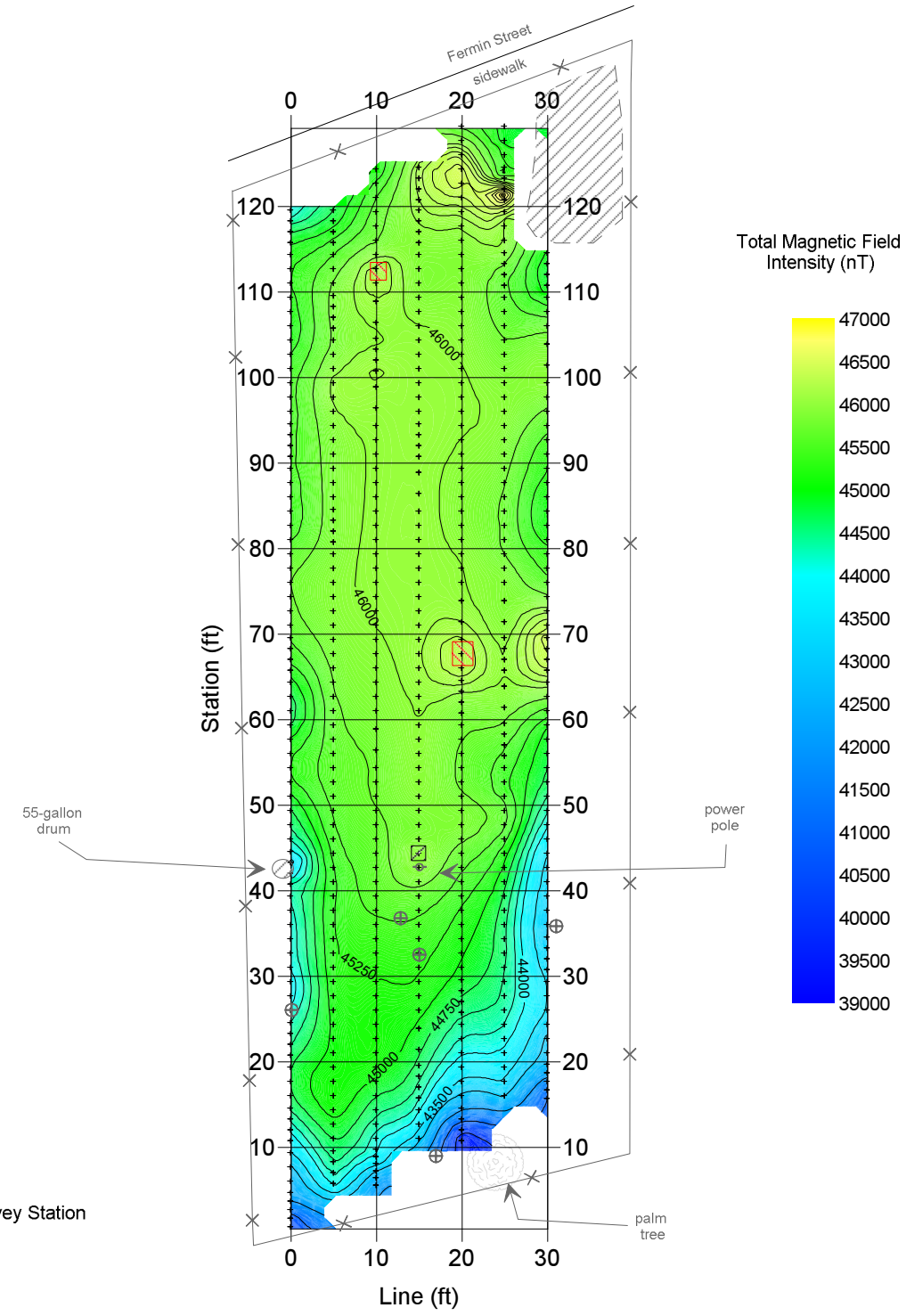
PREPARED FOR: Essel Environmental Consulting
San Francisco, California

PROJECT NO.: 1810081C

SCALE: 1 inch = 20 feet

FIGURE BY: C. Carter

DATE: 10/26/18



LEGEND

- Magnetic Survey Station
- Buried Metal
- Surface Metal
- Proposed Boring Location
- Fence

0 10 20 (feet)

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20434 Corisco Street
Chatsworth, California 91311

(818) 886-4500
www.spectrum-geophysics.com

Contour Map of Total Magnetic Field Intensity-Area 2

FIGURE 5

PROJECT: Vacant Lot, 426 Firmin Street, Los Angeles, California

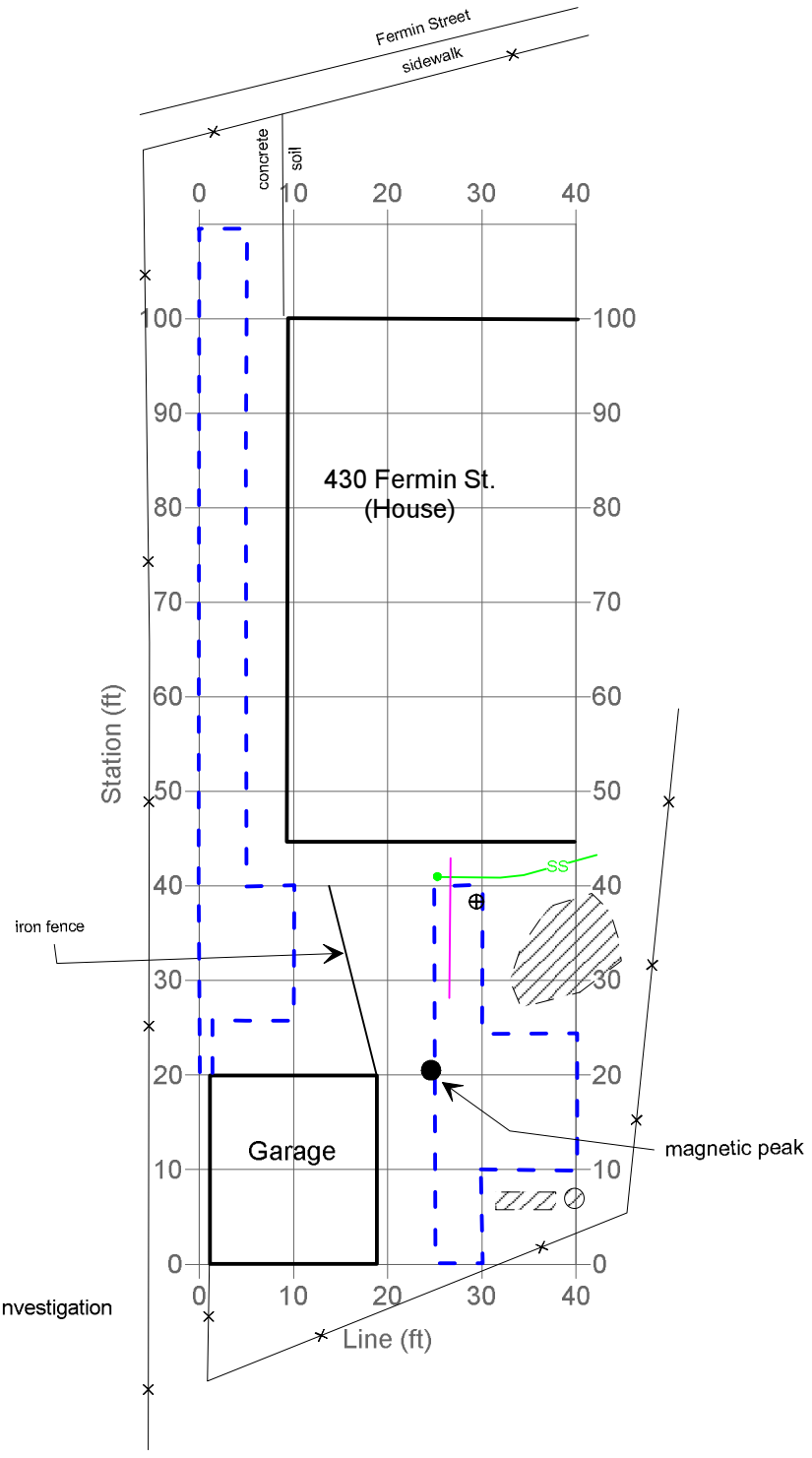
PREPARED FOR: Essel Environmental Consulting, San Francisco, California

PROJECT NO. 1810081C

SCALE: 1 inch = 20 feet

FIGURE BY: C. Carter

DATE: 10/26/18



LEGEND

- Area of Geophysical Investigation
- Metallic Line
- SS — Sewer
- Surface Metal
- ⊕ Proposed Boring Location
- Fence

0 10 20
(feet)

SPECTRUM GEOPHYSICS
"Revealing The Subsurface"
20434 Corisco Street
Chatsworth, California 91311
(818) 886-4500
www.spectrum-geophysics.com

Site Map with Geophysical Interpretation-Area 3

FIGURE 6

PROJECT: Residence
430 Firmin Street
Los Angeles, California

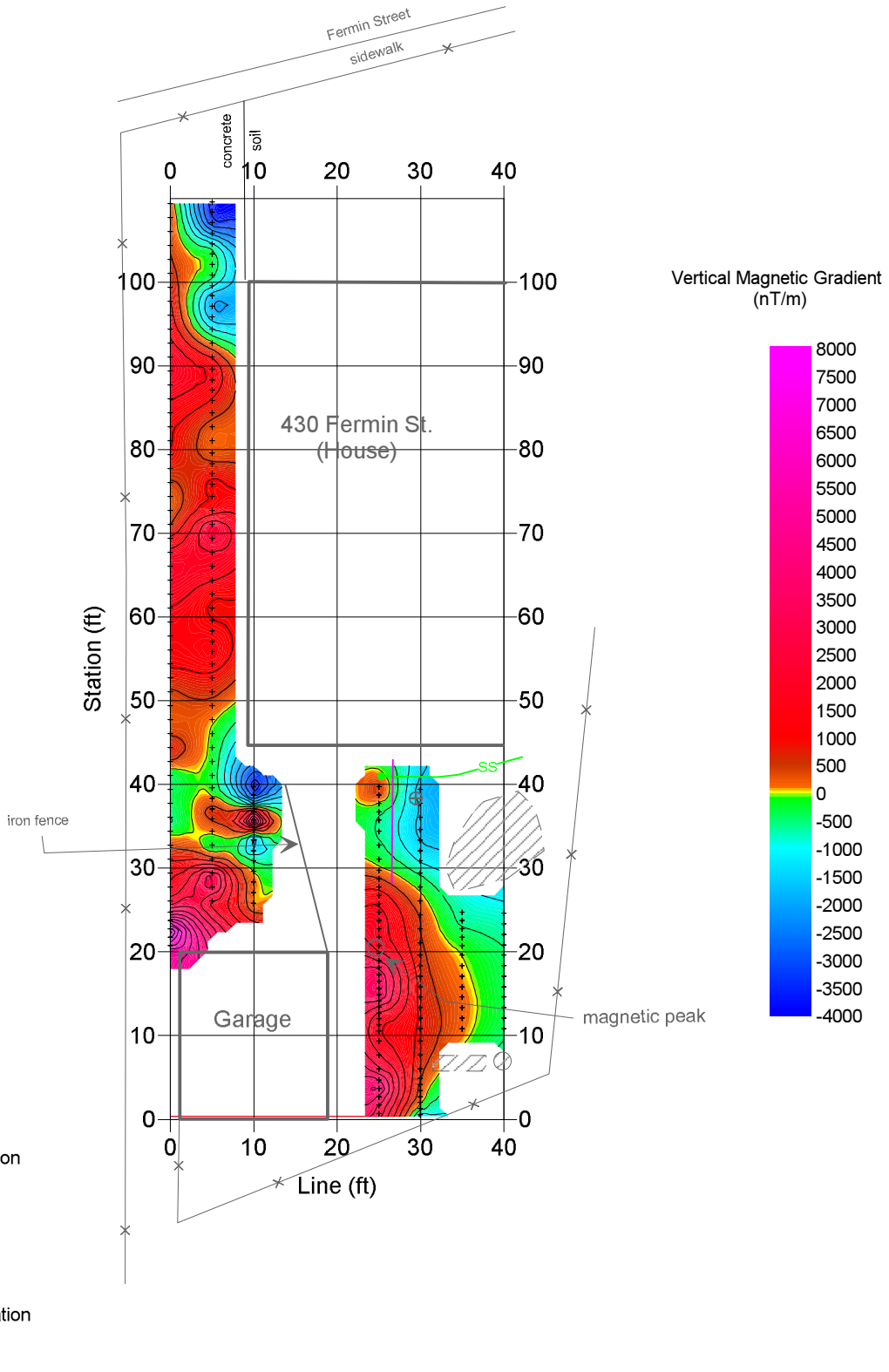
PREPARED FOR: Essel Environmental Consulting
San Francisco, California

PROJECT NO. 1810081C

SCALE: 1 inch = 20 feet

FIGURE BY: C. Carter

DATE: 10/26/18



LEGEND

- + Magnetic Survey Station
- Metallic Line
- SS Sewer
- Surface Metal
- ⊕ Proposed Boring Location
- Fence

0 10 20
(feet)

SPECTRUM GEOPHYSICS
"Revealing The Subsurface"

20434 Corisco Street
Chatsworth, California 91311
(818) 886-4500
www.spectrum-geophysics.com

Contour Map of Vertical Magnetic Gradient-Area 3

FIGURE **7**

PROJECT
Residence
430 Firmin Street
Los Angeles, California

PREPARED FOR
Essel Environmental Consulting
San Francisco, California

PROJECT NO. 1810081C

SCALE 1 inch = 20 feet

FIGURE BY C. Carter

DATE 10/26/18

APPENDIX B

DRILLING PERMIT

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3013 • Email: waterquality@ph.lacounty.gov
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

SR0160002
418-430 Firmin Street, Los Angeles, CA 90026
Work Plan Approval

TO BE COMPLETED BY APPLICANT:

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS FOR WELL PERMIT APPROVAL
418-430 Firmin Street	Los Angeles	90026	tmiller@esseltek.com

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- ALL FIELD WORK MUST BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL GEOLOGIST LICENSED IN THE STATE OF CALIFORNIA.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- ***ONCE APPROVED NOTIFY INSPECTOR AT ytaye@ph.lacounty.gov PREFERABLY 3 BUSINESS DAYS BEFORE WORK IS SCHEDULED TO BEGIN.***

WORK PLAN APPROVED (8-10 soil borings) **DATE: September 28, 2018**

ADDITIONAL APPROVAL CONDITIONS:

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- Exploration holes must comply with all applicable requirements published in the California Well Standards (Bulletins 74-81 and 74-90) and Los Angeles County Code.

REHS NO. 7115

Yonas Taye, REHS

□ ANNULAR SEAL FINAL INSPECTION REQUIRED

DATE ACCEPTED:	REHS signature

□ WELL COMPLETION LOG REQUIRED

DATE ACCEPTED:	REHS signature

□ WATER QUALITY—BACTERIOLOGICAL STANDARDS REQUIRED

DATE ACCEPTED:	REHS signature

□ WATER QUALITY—CHEMICAL STANDARDS REQUIRED

DATE ACCEPTED:	REHS signature

□ WATER SUPPLY YIELD REQUIRED

DATE ACCEPTED:	REHS signature

□ OTHER REQUIREMENT

DATE ACCEPTED:	REHS signature

APPENDIX C

LOGS OF BORINGS

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		LTR	DESCRIPTION
Coarse-grained soils	Gravel and gravelly soils	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sand and sandy soils	SW	Well-graded sand or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine-grained soils	Silts and clays LL<50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and clays LL>50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils. Elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silts
Highly organic soils		PT	Peat and other highly organic soils

- Depth through which sampler is driven
- Relatively undisturbed sample retained for analysis
- No sample recovered
- Static water level observed in well
- Initial water level observed in boring
- PID — Photoionization Detector (readings in ppm)
- Sand pack
- Bentonite
- Neat cement
- Caved or backfilled native soil
- Blank PVC
- Machine-slotted PVC
- Concrete

BLOWS REPRESENT THE NUMBER OF BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES TO DRIVE THE SAMPLER THROUGH EACH 6 INCHES OF AN 18-INCH PENETRATION. THE INTERVAL LENGTH IS SHOWN WHERE LESS THAN 6 INCHES WAS PENETRATED WITH THE MAXIMUM 50 BLOWS.

DASHED LINES SEPARATING UNITS ON THE LOG REPRESENT APPROXIMATE BOUNDARIES ONLY. ACTUAL BOUNDARIES MAY BE GRADUAL. LOGS REPRESENT SUBSURFACE CONDITIONS AT THE BORING LOCATION AT THE TIME OF DRILLING ONLY.

NAMES AND NUMERICAL DESIGNATIONS OF COLORS ARE FROM THE ROCK-COLOR CHART (GEOLOGICAL SOCIETY OF AMERICA, 1984)

PERCENT BY WEIGHT DESIGNATION

TRACE	0-5 PERCENT
SOME	5-15 PERCENT
WITH	15-30 PERCENT
-Y (EX., SANDY)	30-45 PERCENT
AND	45-50 PERCENT

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	December 2018

Essel Environmental Consulting
1035 22nd Avenue, Unit 9
Oakland, California 94606
1-800-595-7616

UNIFIED SOIL CLASSIFICATION SYSTEM AND SYMBOL KEY
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
C-1

Total depth of boring:	52 feet	Casing diameter:	NA
Diameter of boring:	6 1/4 inches	Casing material:	NA
Date drilled:	10/09/18	Slot size:	NA
Drilling Company:	Gregg Drilling & Testing, Inc.	Sand size:	NA
Driller:	DeJuan	Blank casing from	NA to NA
Drilling method:	Hollow-stem auger	Perforated casing from	NA to NA
Sample diameter:	1 3/4 inches	Annular seal from	NA to NA
Field Geologist:	Rodger Witham	Bentonite plug from	NA to NA
		Sand pack from	NA to NA

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
1–2				Topsoil. No core collected between 0 and 3 feet.	
3			CL/CH	Silty clay, some fine- to coarse-grained sand, trace gravel, dusky yellowish-brown (10YR 2/2), damp, high plasticity, hard, some filamentous plant roots.	
4				Dusky brown (5Y 2/2) with light olive gray (5Y 5/2) mottling at 3 feet 6 inches, moderately abundant dark yellowish-orange (10YR 6/6) staining.	
5	S-5-EE4	0.3		Light olive gray (5Y 5/2) at 4 feet 3 inches, some dusky yellowish-brown (10YR 2/2) mottling, some dark yellowish-orange (10YR 6/6) staining, some white (N9) weathered sand grains. Greenish-gray (5GY 6/1) at 4 feet 6 inches, abundant white (N9) weathered deposits, moderately abundant dark yellowish-orange (10YR 6/6) staining, stiff, medium to high plasticity.	
6				Abundant very pale orange (10YR 8/2) weathered deposits at 5 feet 6 inches to 5 feet 11 inches. Some dark yellowish-orange (10YR 6/6) staining at 5 feet 11 inches.	
7				Light olive gray (5Y 5/2) and greenish gray (5G 6/1) mottled at 7 feet 3 inches, moderately abundant dark yellowish-orange (10YR 6/6) staining in bands and disseminated in core.	
8				Variable colored (light olive gray [5Y 5/2], medium dark gray [N4], light gray [N7], greenish gray [5G 6/1], dark yellowish-brown [10YR 4/2], and very pale orange [10YR 8/2]) bands and 2-inch-thick zones between 7 feet 9 inches and 9 feet 8 inches. Bands of dark yellowish-orange (10YR 6/6) staining at 8 feet 8 inches to 8 feet 11 inches. Some white (N9) and pale yellowish-orange (10YR 8/6) weathering at 9 feet to 9 feet 5 inches. Some pale yellowish-brown (10YR 6/2) silt laminae.	
9		0.6			
10	S-10-EE4	0.7	ML	Silt, some fine- to coarse-grained sand, trace clay, light olive gray (5Y 5/2), damp, low plasticity, abundant minute mica flakes.	
11			CL/CH	Silty clay/claystone, light olive gray (5Y 5/2), with greenish gray (5G 6/1) mottling, some dark yellowish-brown (10YR 4/2) laminations, trace dark yellowish-orange (10YR 6/6) staining, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
12				Silty fine- to coarse-grained sand lens at 12 feet 6 inches to 12 feet 8 inches, light olive gray (5Y 5/2). Dark greenish-gray (5GY 4/1) at 13 feet, some dark yellowish-orange (10YR 6/6) staining.	
13		2.7			
14				Dusky brown (10YR 2/2) at 14½ feet, yellowish gray (5Y 7/2) interbedded silt laminae, abundant minute mica flakes, slight petroleum odor.	
15	S-15-EE4	0.9		Olive black (5Y 2/1), dusky yellowish-brown (10YR 2/2), and medium bluish-gray (5B 5/1) laminated at 15½ feet, abundant light olive gray (5Y 6/1) silt along laminar bedding surfaces, abundant minute mica flakes, slightly to moderately indurated in places, slight petroleum odor.	
16					
		0.0			

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-4	C-2

Essel Environmental Consulting
1035 22nd Avenue, Suite 9
Oakland, California 94606
1-800-595-7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
18					
19					
20		0.7	CL/CH	Silty clay/claystone, olive gray (5Y 3/2) and olive black (5Y 2/1), damp, medium to high plasticity, abundant minute mica flakes, slightly to moderately indurated in places, slight petroleum odor.	
21					
22		0.4			
23					
24					
25	S-25-EE4	3.4		Silty clay/claystone, dark greenish-gray (5G 4/1) and olive black (5Y 2/1), some light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
26					
27		1.7			
28					
29					
30		0.3		Silty clay/claystone, olive gray (5Y 3/2) and olive black (5Y 2/1), some light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
31					
32		1.7			
33					
34					
35		0.7		Silty clay/claystone, dark greenish-gray (5G 4/1), some dusky brown (5YR 2/2) mottling, with light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
36		0.1			
37		0.5			
38					

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-4	C-3

Essel Environmental Consulting
1035 22nd Avenue, Suite 9
Oakland, California 94606
1-800-595-7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
40	S-40-EE4	0.1	CL/CH	Silty clay/claystone, dark greenish-gray (5G 4/1), some dusky brown (5YR 2/2) mottling, some light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly to moderately indurated in places, slight petroleum odor.	
41					
42		1.4			
43					
44					
45		0.4		Silty clay/claystone, dark greenish-gray (5G 4/1), some dusky brown (5YR 2/2) mottling, some light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly to moderately indurated in places, petroleum odor.	
46					
47		1.4			
48					
49					
50	S-50-EE4	0.3		Silty clay/claystone, dark greenish-gray (5G 4/1) and olive gray (5Y 3/2) laminated, some light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly to moderately indurated in places, slight petroleum odor.	
51					
52		3.7		Total Depth = 52 feet. No ground water encountered.	
53					
54					
55					
56					
57					
58					
59					
60					

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	December 2018

Essel Environmental Consulting
1035 22nd Avenue, Suite 9
Oakland, California 94606
1-800-595-7616

LOG OF BORING EE-4
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
C-4

Total depth of boring:	52 feet	Casing diameter:	NA
Diameter of boring:	6 1/4 inches	Casing material:	NA
Date drilled:	10/09/18	Slot size:	NA
Drilling Company:	Gregg Drilling & Testing, Inc.	Sand size:	NA
Driller:	DeJuan	Blank casing from	NA to NA
Drilling method:	Hollow-stem auger	Perforated casing from	NA to NA
Sample diameter:	1 3/4 inches	Annular seal from	NA to NA
Field Geologist:	Rodger Witham	Bentonite plug from	NA to NA
		Sand pack from	NA to NA

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Topsoil.	
5	S-5-EE5	0.0	CH	Silty clay (Fill), trace fine- to coarse-grained sand, dusky yellowish-brown (10YR 2/2), damp, high plasticity, hard, some fibrous plant material (palm), bits of plastic, concrete fragments.	
6			CL/CH	Light olive gray (5Y 5/2) at 6 feet 4 inches, with dusky yellowish-brown (10YR 2/2) mottling, moderately abundant dark yellowish-orange (10YR 6/6) staining, trace white (N9) weathered sand-sized specks.	
7		0.2			
10	S-10-EE5	2.0		Silty clay, some moderate yellowish-brown (10YR 5/4) and dark yellowish-brown (10YR 4/2) interbedded silt laminae, dusky yellow green (5GY 5/2) and dark yellowish-brown (10YR 4/2) variegated, some dark yellowish-orange (10YR 6/6) staining, damp, medium to high plasticity, stiff, abundant minute mica flakes, slight petroleum odor.	
11				Greenish gray (5G 6/1) and dark yellowish-brown (10YR 4/2) mottled at 11 to 12 feet.	
12		8.6		Some grayish blue (5PB 5/2) and white (N9) gravel clasts (up to ¾-inch in maximum dimension) at 11 feet 5 inches.	
15	S-15-EE5	1.3		Silty clay, dark yellowish-brown (10YR 4/2), light olive gray (5Y 5/2), and greenish gray (5GY 6/1) variegated, zones of alternating dark yellowish-brown (10YR 4/2) clay and very pale orange (10YR 8/2) silt laminae, some very dusky red (10R 2/2) and dark yellowish-orange (10YR 6/6) staining, damp, medium to high plasticity, abundant minute mica flakes, very slight petroleum odor.	
16		0.6			
		0.8		Some light bluish-gray (5B 7/1) mottling at 16½ feet.	

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-5	C-5

Essel Environmental Consulting
1035 22nd Avenue, Suite 9
Oakland, California 94606
1-800-595-7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
18					
19					
20	S-20-EE5	2.9 3.4	CL/CH	Silty clay/claystone, variable olive black (5Y 2/1) and dusky brown (5YR 2/2), yellowish-gray (5Y 7/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
21					
22		2.4			
23					
24					
25	S-25-EE5	0.8 1.4		Silty clay/claystone, variable olive gray (5Y 3/2), olive black (5Y 2/1) and dusky brown (5YR 2/2), light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, indurated in places, slight petroleum odor.	
26					
27		2.4			
28					
29					
30		1.2 1.1		Silty clay/claystone, olive gray (5Y 3/2) and olive black (5Y 2/1), numerous light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, indurated in places, petroleum odor.	
31					
32		0.6			
33					
34					
35	S-35-EE5	0.4		Silty clay/claystone, olive gray (5Y 3/2) and olive black (5Y 2/1), light olive gray (5Y 5/2) silt laminae, some dusky brown (5YR 2/2) laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, petroleum odor.	
36					
37		1.4			
38					

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-5 418, 426, and 430 Firmin Street Los Angeles, California 90026	C-6

Essel Environmental Consulting
1035 22nd Avenue, Suite 9
Oakland, California 94606
1-800-595-7616

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
40		0.3	CL/CH	Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) silt and dusky brown (5YR 2/2) clay laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, petroleum odor.	
		0.2			
41					
42		1.2			
43					
44					
45	S-45-EE5	1.2		Silty clay/claystone, olive gray (5Y 3/2) and olive black (5Y 2/1), light olive gray (5Y 5/2) silt and dusky brown (5YR 2/2) clay laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, petroleum odor.	
		0.7			
46					
47		1.3			
48					
49					
50	S-50-EE5	1.3		Silty clay/claystone, olive gray (5Y 3/2) and olive black (5Y 2/1), light olive gray (5Y 5/2) silt and dusky brown (5YR 2/2) clay laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, petroleum odor.	
		1.5			
51					
		3.0			
52				Total Depth = 52 feet. No ground water encountered.	
53					
54					
55					
56					
57					
58					
59					
60					

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	December 2018

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LOG OF BORING EE-5

418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE

C-7

Total depth of boring: 52 feet
Diameter of boring: 6 1/4 inches
Date drilled: 10/09/18
Drilling Company: Gregg Drilling & Testing, Inc.
Driller: DeJuan
Drilling method: Hollow-stem auger
Sample diameter: 1 3/4 inches
Field Geologist: Rodger Witham

Casing diameter: NA
Casing material: NA
Slot size: NA
Sand size: NA
Blank casing from NA to NA
Perforated casing from NA to NA
Annular seal from NA to NA
Bentonite plug from NA to NA
Sand pack from NA to NA

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Topsoil.	
5		7.4	CL/CH	Silty clay, some fine- to coarse-grained sand, trace gravel up to ¾-inch in maximum dimension, dusky yellowish-brown (10YR 2/2), damp, medium to high plasticity, some plant material and rootlets.	
		0.6		Dusky yellow green (5GY 5/2) and medium bluish-gray (5B 5/1) mottled at 5 feet 8 inches, moderately abundant very pale orange (10YR 8/2) deposits as irregular patches and spots, some dark yellowish-orange (10YR 6/6) staining, no plant material, abundant minute mica flakes, slight petroleum odor.	
7		2.5		Alternating dusky yellow green (5GY 5/2) and light greenish-gray (5GY 8/1) laminae at 6 feet, no petroleum odor.	
				Greenish gray (5GY 6/1) at 6 feet 3 inches, some dark yellowish-orange (10YR 6/6) staining.	
				Dark greenish gray (5GY 4/1) at 6 feet 5 inches, some brownish black (5YR 2/1) and medium bluish-gray (5B 5/1) mottling, trace white (N9) weathered sand-sized spots, grades downward to greenish gray (5GY 6/1).	
9				Moderately abundant dark yellowish-orange (10YR 6/6) staining at 6 feet 9 inches to 7 feet.	
10		0.3		Silty clay, trace coarse-grained sand, dark greenish-gray (5GY 4/1), abundant dark yellowish-orange (10YR 6/6) and some moderate reddish-brown (10R 4/6) staining, damp, medium to high plasticity, abundant minute mica flakes, no petroleum odor.	
	S-10-EE6	0.2		Decreasing dark yellowish-orange staining downward to moderately abundant, no moderate reddish-brown staining.	
12		4.6		Some white (N9) weathered bands and angular gravel clasts at 11 feet 3 inches to 11 feet 5 inches.	
15		0.3		Silty clay/claystone, greenish gray (5G 6/1), some dark yellowish-orange (10YR 6/6) staining, damp, medium to high plasticity, abundant minute mica flakes, some laminar bedding, slightly indurated in places, slight petroleum odor.	
	S-15-EE6			Grayish brown (5YR 3/2) at 15 feet 9 inches.	
		3.4			

PROJECT NO.	DRAWN BY	REPORT DATE
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LOG OF BORING EE-6
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
C-8

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
18					
19					
20	S-20-EE6	0.5 0.6	CL/CH	Silty clay/claystone, olive gray (5Y 3/2), some grayish brown (10YR 3/2) laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor. Alternating light olive gray (5Y 5/2) and grayish brown (5YR 3/2) laminae at 21 feet to 21 feet 3 inches. Olive gray (5Y 3/2) at 21 feet 3 inches.	
21					
22		4.6			
23					
24					
25		2.9		Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) silt along laminar bedding surfaces, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, petroleum odor.	
26					
27		2.6			
28					
29					
30	S-30-EE6	5.8		Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) silt along laminar bedding surfaces and as thin (less than 1/4-inch thick) laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, petroleum odor.	
31					
32					
33					
34					
35		2.8		Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) silt along laminar bedding surfaces, light olive gray (5Y 5/2) silt and dusky brown (5YR 2/2) clay laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, petroleum odor.	
36					
37		0.9			
38					

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-6 418, 426, and 430 Firmin Street Los Angeles, California 90026	C-9

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Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
40		0.3	CL/CH	Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) and moderate brown (5YR 3/4) silt laminae, dusky brown (5YR 2/2) clay laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, petroleum odor.	
41					
42		6.2			
43					
44					
45	S-45-EE6	5.6		Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) and dusky brown (5YR 2/2) laminae, olive gray, light olive gray, and dusky brown mottled in weathered zones, trace small grayish orange (10YR 7/4) patches, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, petroleum odor.	
46		12.2			
47		2.1		Trace gravel up to 2 inches in maximum dimension at 46 feet 10 inches.	
48					
49					
50	S-50-EE6	4.1		Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) and moderate brown (5YR 3/4) silt laminae, dusky brown (5YR 2/2) clay laminae, light olive gray along laminar bedding surfaces, damp, medium to high plasticity, abundant minute mica flakes, slightly to moderately indurated in places, petroleum odor.	
51					
52		5.2		Total Depth = 52 feet. No ground water encountered.	
53					
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PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-6 418, 426, and 430 Firmin Street Los Angeles, California 90026	C-10

Essel Environmental Consulting
1035 22nd Avenue, Suite 9
Oakland, California 94606
1-800-595-7616

Total depth of boring: 52 feet
Diameter of boring: 6 1/4 inches
Date drilled: 10/10/18
Drilling Company: Gregg Drilling & Testing, Inc.
Driller: DeJuan
Drilling method: Hollow-stem auger
Sample diameter: 1 3/4 inches
Field Geologist: Rodger Witham

Casing diameter: NA
Casing material: NA
Slot size: NA
Sand size: NA
Blank casing from NA to NA
Perforated casing from NA to NA
Annular seal from NA to NA
Bentonite plug from NA to NA
Sand pack from NA to NA

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Topsoil.	
5	S-5-EE7	0.3	CL/CH	Silty clay/claystone, light olive gray (5Y 5/2), with white (N9) weathering deposits as small to large patches, some dark yellowish-orange (10YR 6/6) staining, damp, medium to high plasticity, some minute mica flakes, some laminar bedding, slightly indurated in places.	
7		1.0			
10	S-10-EE7	0.8		Silty clay/claystone, dusky yellow green (5GY 5/2), some dark yellowish-orange (10YR 6/6) staining, trace white (N9) specks, damp, medium to high plasticity, some minute mica flakes, some laminar bedding, slightly indurated in places. Abundant dark yellowish-orange (10YR 6/6) staining at 10 feet 10 inches to 11 feet 2 inches, decreasing to no staining at 11 feet 6 inches. Some moderate brown (5YR 3/4) mottling at 11 feet 10 inches.	
12		1.0			
15	S-15-EE7	2.5		Silty clay/claystone, dark greenish-gray (5G 4/1), with dusky brown (5YR 2/2) mottling, damp, medium to high plasticity, abundant minute mica flakes, some laminar bedding, slightly indurated in places, slight petroleum odor.	
		1.5			

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	December 2018

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LOG OF BORING EE-7
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
C-11

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
18					
19					
20	S-20-EE7	1.4	CL/CH	Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) silt along laminar bedding surfaces, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
21					
22		2.6			
23					
24					
25		1.7		Silty clay/claystone, olive gray (5Y 3/2), some light olive gray (5Y 5/2) mottling, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
26				Light olive gray (5Y 5/2) silt lens at 26 feet 5 inches to 26 feet 7 inches.	
27		2.4			
28					
29					
30	S-30-EE7	2.2		Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) silt along laminar bedding surfaces and as thin (less than ¼-inch thick) laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
31					
32		2.1			
33					
34					
35		1.4		Silty clay/claystone, olive gray (5Y 3/2), some dusky brown (5YR 2/2) mottling in weathered zones, light olive gray (5Y 5/2) silt along laminar bedding surfaces, damp, medium to high plasticity, abundant minute mica flakes, slightly to moderately indurated in places, slight petroleum odor.	
36					
37		1.7		Dusky brown (5YR 2/2) and light olive gray (5Y 5/2) laminar bedding at 36 feet 9 inches to 36 feet 11 inches	
38					

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-7 418, 426, and 430 Firmin Street Los Angeles, California 90026	C-12

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Oakland, California 94606
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Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
40		1.3	CL/CH	Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) silt along laminar bedding surfaces, some dusky brown (5YR 2/2) mottling in weathered zones, damp, medium to high plasticity, abundant minute mica flakes, slightly to moderately indurated in places, slight petroleum odor.	
41					
42		1.5			
43					
44					
45	S-45-EE7	2.8		Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) silt along laminar bedding surfaces, some dusky brown (5YR 2/2) mottling in weathered zones, damp, medium to high plasticity, abundant minute mica flakes, slightly to moderately indurated in places, moderate petroleum odor.	
46					
47		3.4			
48					
49					
50	S-50-EE7	1.3		Silty clay/claystone, olive gray (5Y 3/2), light olive gray (5Y 5/2) silt along laminar bedding surfaces, some dusky brown (5YR 2/2) mottling in weathered zones, damp, medium to high plasticity, abundant minute mica flakes, slightly to moderately indurated in places, moderate petroleum odor.	
51					
52		1.6		Total Depth = 52 feet. No ground water encountered.	
53					
54					
55					
56					
57					
58					
59					
60					

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-7 418, 426, and 430 Firmin Street Los Angeles, California 90026	C-13

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Oakland, California 94606
1-800-595-7616

Total depth of boring:	52 feet	Casing diameter:	NA
Diameter of boring:	6 1/4 inches	Casing material:	NA
Date drilled:	10/11/18	Slot size:	NA
Drilling Company:	Gregg Drilling & Testing, Inc.	Sand size:	NA
Driller:	DeJuan	Blank casing from	NA to NA
Drilling method:	Hollow-stem auger	Perforated casing from	NA to NA
Sample diameter:	1 3/4 inches	Annular seal from	NA to NA
Field Geologist:	Rodger Witham	Bentonite plug from	NA to NA
		Sand pack from	NA to NA

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete.	
5	S-5-EE8	10.1	CL/CH	Silty clay, dusky yellow green (5GY 5/2), with light greenish-gray (5G 8/1) interbedded silt laminae, variable (some to moderately abundant) dark yellowish-orange (10YR 6/6) staining, damp, medium to high plasticity, stiff, some minute mica flakes, trace plant roots, slight petroleum odor.	
7		3.8			
10	S-10-EE8	20.4		Silty clay, trace gravel up to 1¼ inches in maximum dimension, dusky yellow green (5GY 5/2), with light greenish-gray (5G 8/1) interbedded silt laminae, variable (some to moderately abundant) dark yellowish-orange (10YR 6/6) staining, damp, medium to high plasticity, stiff, some minute mica flakes, slight petroleum odor.	
12		10.2	ML	Silt, yellowish gray (5Y 7/2), damp, no plasticity.	
15	S-15-EE8	4.9	CL/CH	Silty clay, trace gravel up to 1 inch in maximum dimension, greenish gray (5G 6/1) and dark yellowish-brown (10YR 4/2) mottled, light greenish-gray (5G 8/1) silt along laminar bedding surfaces, variable (slight to abundant) dark yellowish-orange (10YR 6/6) staining, damp, medium to high plasticity, abundant minute mica flakes, slight petroleum odor.	
		14.0			

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-8 418, 426, and 430 Firmin Street Los Angeles, California 90026	C-14

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Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
18					
19					
20		23.6	CL/CH	Silty clay/claystone, greenish–gray (5G 6/1) and olive gray (5Y 4/1) laminated, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
21				Olive gray (5Y 3/2) at 20 feet 5 inches, some very dusky red (10R 2/2) staining. Greenish gray (5G 6/1) at 20 feet 8 inches.	
22	S–21½–EE8	47.3		Dusky brown (5YR 2/2) and olive black (5Y 2/1) laminae at 20 feet 11 inches.	
23					
24					
25		4.4		Silty clay/claystone, dark greenish–gray (5G 4/1) and dusky brown (5YR 2/2) laminated, light olive gray (5Y 5/2) silt along laminar bedding surfaces, damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, slight petroleum odor.	
26					
27		11.4			
28					
29					
30	S–30–EE8	57.6		Silty clay/claystone, dark greenish–gray (5G 4/1), greenish gray (5G 6/1) and light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
31					
32		17.4			
33					
34					
35		36.1		Silty clay/claystone, olive black (5Y 2/1), light olive gray (5Y 5/2) silt along laminar bedding surfaces, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
36					
37		10.3			
38					

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-8 418, 426, and 430 Firmin Street Los Angeles, California 90026	C-15

Essel Environmental Consulting
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Oakland, California 94606
1–800–595–7616

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
40		12.5	CL/CH	Silty clay/claystone, olive gray (5Y 3/2) and olive black (5Y2/1) laminated, light olive gray (5Y 5/2) silt along laminar bedding surfaces, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
41					
42	S-41½-EE8	42.0			
43					
44					
45		2.7		Silty clay/claystone, olive gray (5Y 3/2) and olive black (5Y 2/1) laminated, light olive gray (5Y 5/2) silt along laminar bedding surfaces, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
46					
47		3.0			
48					
49					
50		1.2		Silty clay/claystone, olive gray (5Y 3/2) and olive black (5Y 2/1) laminated, light olive gray (5Y 5/2) silt along laminar bedding surfaces, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
51					
52	S-51½-EE8	32.5		Total Depth = 52 feet. No ground water encountered.	
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PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-8 418, 426, and 430 Firmin Street Los Angeles, California 90026	C-16

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Oakland, California 94606
1-800-595-7616

Total depth of boring:	20 feet	Casing diameter:	NA
Diameter of boring:	2 1/2 inches	Casing material:	NA
Date drilled:	10/11/18	Slot size:	NA
Drilling Company:	Gregg Drilling & Testing, Inc.	Sand size:	NA
Driller:	DeJuan	Blank casing from	NA to NA
Drilling method:	Direct Push	Perforated casing from	NA to NA
Sample diameter:	1 3/4 inches	Annular seal from	NA to NA
Field Geologist:	Rodger Witham	Bentonite plug from	NA to NA
		Sand pack from	NA to NA

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
		0.6		Concrete.	
			SW	Fine– to coarse–grained sand (Fill), medium light gray (N6), damp.	
1			CH	Silty clay, trace fine– to coarse–grained sand, trace gravel, brownish black (5YR 2/1), damp, high plasticity, stiff, trace partly decomposed plant material, visible petroleum along seams of fine– to medium–grained sand, some petroleum odor, abundant minute mica flakes.	
2				Silty fine– to medium–grained sand lens at 6 to 7 inches, with gravel. Some fine– to coarse–grained sand at 9 inches, very stiff. Hard at 1 foot.	
3				Plant root at 2 feet 5 inches, slight petroleum odor in fine– to medium–grained sand seams. Brownish black (5YR 2/1) and dusky yellow green (5GY 5/2) variegated at 2 feet 7 inches.	
4		2.9		Greenish gray (5GY 6/1) and light olive gray (5Y 5/2) variegated at 3 feet 3 inches, irregular grayish brown (5YR 3/2) seams, moderately abundant dark yellowish–orange (10YR 6/6) staining.	
			ML	Greenish gray (5GY 6/1) at 3 feet 10 inches, abundant dark yellowish–orange (10YR 6/6) staining, trace plant roots.	
5	S–5–EE9	0.5	CL/CH	Silt, trace clay, greenish gray (5GY 6/1), damp, low plasticity.	
		1.7		Silty clay, greenish gray (5GY 6/1), abundant dark yellowish–orange (10YR 6/6) staining, damp, high plasticity, stiff, some minute mica flakes, trace black (N1) oily seams, slight petroleum odor.	
6				Medium light gray (N6) laminar silt interbeds at 5 feet 6 inches to 8 feet, very pale orange (10YR 8/2) patches and bands (weathered soil), moderately abundant dark yellowish–orange (10YR 6/6) and some moderate reddish–brown (10R 4/6) staining, no oily seams.	
7					
8		5.8		Silty clay/claystone at approximately 8 feet, slight petroleum odor. Dark yellowish–brown (10YR 4/2) at 8 feet 3 inches, medium to high plasticity, stiff.	
9				Medium dark gray (N4) silt lens at 9 feet 2 inches to 9 feet 4 inches, damp, low plasticity. Abundant dark yellowish–orange (10YR 6/6) staining at 9 feet 7 inches to 9 feet 9 inches.	
10	S–10–EE9	1.5			
		3.5			
11					
12		0.6		Dark yellowish–brown (10YR 4/2) and greenish gray (5GY 6/1) mottled at 12 feet, medium gray (N5) and light gray (N7) interbedded silt laminae, moderately abundant dark yellowish–orange (10YR 6/6) staining, abundant minute mica flakes, slight petroleum odor.	
13				Dark yellowish–brown (10YR 4/2) and medium bluish–gray (5B 5/1) mottled at 12½ to 13½ feet, some dark yellowish–orange (10YR 6/6) staining. Light olive gray (5Y 5/2) silt interbedded laminae at 13½ to 14 feet, moderately abundant minute mica flakes.	
14					
15	S–15–EE9			Hard at 15½ to 16 feet.	
16		1.8			
			ML	Silt, light olive gray (5Y 5/2), damp, low plasticity.	

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18026	EC	December 2018	LOG OF BORING EE-9	C-17

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1–800–595–7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
18			CH	Silty clay/claystone, dark yellowish–brown (10YR 4/2), damp, high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor. Some medium bluish–gray (5B 5/1) mottling at 18 feet 9 inches to 19 feet.	
19	S–19½–EE9	24			
20				Total Depth = 20 feet. No ground water encountered.	
21					
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PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-9 418, 426, and 430 Firmin Street Los Angeles, California 90026	C-18

Essel Environmental Consulting
1035 22nd Avenue, Suite 9
Oakland, California 94606
1–800–595–7616

Total depth of boring:	20 feet	Casing diameter:	NA
Diameter of boring:	2 1/2 inches	Casing material:	NA
Date drilled:	10/11/18	Slot size:	NA
Drilling Company:	Gregg Drilling & Testing, Inc.	Sand size:	NA
Driller:	DeJuan	Blank casing from	NA to NA
Drilling method:	Direct Push	Perforated casing from	NA to NA
Sample diameter:	1 3/4 inches	Annular seal from	NA to NA
Field Geologist:	Rodger Witham	Bentonite plug from	NA to NA
		Sand pack from	NA to NA

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
		2.5		Concrete.	
1			CH	Silty clay, some fine– to coarse–grained sand, trace gravel up to 1 inch in maximum dimension, grayish black (N2), trace dark yellowish–orange (10YR 6/6) and moderate reddish–brown (10R 4/6) staining, damp, high plasticity, hard, trace plant rootlets.	
2					
				Trace grayish olive–green (5GY 3/2) mottling at 2 feet 10 inches, very stiff.	
3				Dark greenish–gray (5GY 4/1), some grayish black (N2) mottling at 2 feet 11 inches.	
				Dark greenish–gray (5G 4/1) at 3 feet 4 inches.	
4		2.2	CL	Silty clay, dark greenish–gray (5G 4/1) and grayish orange (10YR 7/4) mottled, damp, medium plasticity, very stiff, abundant minute mica flakes. Some dark yellowish–orange (10YR 6/6) staining at 4 feet.	
5	S–5–EE10			1–inch–thick lens of gravelly fine– to coarse–grained sand at 4 feet 7 inches, grayish orange (10YR 7/4), slight petroleum odor.	
				Silt lens at 5 feet 8 inches to 5 feet 10 inches, greenish gray (5GY 6/1).	
6				Silt lens at 6 feet 1 inch to 6 feet 3 inches, greenish gray (5GY 6/1).	
				Moderately abundant dark yellowish–orange (10YR 6/6) and very pale orange (10YR 8/2) staining from 6½ to 7 feet.	
7			ML	Silt, greenish gray (5GY 6/1), damp, no plasticity.	
8		1.9	CL/CH	Silty clay, dark greenish–gray (5GY 4/1), with medium bluish–gray (5B 5/1) and light bluish–gray (5B 7/1) mottling, some dark yellowish–orange (10YR 6/6) and moderate reddish–brown (10R 4/6) staining, damp, medium plasticity, very stiff, with minute mica flakes.	
				Pockets of fine– to coarse–grained sand and gravel at 8½ to 9 feet.	
9				Medium bluish–gray (5B 5/1) and dark yellowish–orange (10YR 6/6) mottled at 9 feet to 9 feet 4 inches.	
				Silt lens at 9 feet 6 inches to 9 feet 9 inches, dark yellowish–brown (10YR 4/2).	
10	S–10–EE10	0.6			
		1.8			
11				Light olive gray (5Y 5/2), black (N1), dusky yellowish–brown (10YR 2/2), and greenish gray (5GY 6/1) variegated at 11 to 12 feet, moderately abundant dark yellowish–orange (10YR 6/6) staining in large patches, high plasticity.	
12		2.4			
			CL/CH	Silty clay/claystone, trace fine– to medium–grained sand, trace gravel up to ¾–inch in maximum dimension, dark yellowish–brown (10YR 4/2), damp, medium to high plasticity, some dusky yellowish–brown (10YR 2/2) nodules.	
13			ML	Dark yellowish–orange (10YR 6/6) and medium light gray (N6) mottling at 12 feet 10 inches to 13 feet.	
			CL/CH	Slightly indurated at 13 feet.	
14				Moderate yellowish–brown (10YR 5/4) with medium gray (N5) mottling at 13 feet to 13 feet 2 inches.	
			ML	Silt, pale yellowish–brown (10YR 6/2), no plasticity.	
15	S–15–EE10	3.8	CL/CH	Silty clay/claystone, moderate yellowish–brown (10YR 5/4), with medium gray (N5) mottling, damp, medium to high plasticity.	
		6.3		Moderately abundant light bluish–gray (5B 7/1) and dark reddish–brown (10R 3/4) staining at 13 feet 10 inches, low plasticity to 14 feet 1 inch.	
16				Silt/siltstone, dark yellowish–brown (10YR 4/2), slightly indurated, no plasticity.	
				Silty clay/claystone CONTINUES DOWNWARD	

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-10	C-19

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Oakland, California 94606
1–800–595–7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
18			CL/CH	Silty clay/claystone, trace gravel up to 1 inch in maximum dimension, moderate yellowish–brown (10YR 5/4), some medium bluish–gray (5B 5/1), light bluish–gray (5B 7/1), and dusky yellowish–brown (10YR 2/2) mottling, some dark yellowish–orange (10YR 6/6) staining, damp, medium to high plasticity.	
19				Pale yellowish–brown (10YR 6/2) at 15 feet 6 inches, dark yellowish–brown (10YR 4/2) at 15 feet 7 inches, slightly indurated, some laminar bedding, abundant minute mica flakes.	
	S–19½–EE10			Olive gray (5Y 4/1) at 16 feet, some dark yellowish–orange (10YR 6/6) staining.	
20				Dark yellowish–brown (10YR 4/2) at 17 feet 6 inches, moderately indurated fragments consist of alternating moderate yellowish–brown (10YR 5/4) and dark yellowish–brown (10YR 4/2) laminae.	
21				Olive gray (5Y 4/1) at 18 feet 5 inches.	
22				Total Depth = 20 feet. No ground water encountered.	
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-10	C-20

Essel Environmental Consulting
1035 22nd Avenue, Suite 9
Oakland, California 94606
1–800–595–7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026

Total depth of boring:	52 feet	Casing diameter:	NA
Diameter of boring:	6 1/4 inches	Casing material:	NA
Date drilled:	10/12/18	Slot size:	NA
Drilling Company:	Gregg Drilling & Testing, Inc.	Sand size:	NA
Driller:	DeJuan	Blank casing from	NA to NA
Drilling method:	Hollow-stem auger	Perforated casing from	NA to NA
Sample diameter:	1 3/4 inches	Annular seal from	NA to NA
Field Geologist:	Rodger Witham	Bentonite plug from	NA to NA
		Sand pack from	NA to NA

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete.	
5	S-5-EE11	4.5	CL/CH	Silty clay, trace fine- to medium-grained sand, light olive gray (5Y 5/2), with irregular dark yellowish-orange (10YR 6/6) and moderate reddish-brown (10R 4/6) staining, light gray (N6) to very light gray (N8) silt in irregular seams, patches, and specks, damp, medium to high plasticity, stiff, slight petroleum odor.	
6				Dark greenish-gray (5GY 4/1) at 6 feet 1 inch.	
7		2.7		Greenish gray (5GY 6/1) at 6 feet 7 inches, abundant dark yellowish-orange (10YR 6/6) staining.	
				Brownish black (5YR 2/1) at 6 feet 11 inches, some fine- to coarse-grained sand.	
10		1.4		Silty clay, trace fine- to coarse-grained sand, dusky yellow green (5GY 5/2), moderately abundant dark yellowish-orange (10YR 6/6) staining, damp, medium to high plasticity, stiff, slight petroleum odor.	
11				Interbeds of light gray (N7) silt laminae between 10 feet 9 inches and 11 feet 1 inch.	
				Abundant dark yellowish-orange (10YR 6/6) staining between 11 feet 1 inch and 11 feet 4 inches.	
12		7.5		Interbeds of light gray (N7) silt laminae between 11 feet 7 inches and 11 feet 10 inches.	
15		3.6	CL/CH	Silty clay, olive gray (5Y 4/1), damp, medium to high plasticity, stiff, abundant minute mica flakes, slight petroleum odor.	
				Silty fine- to coarse-grained sand lens at 15 feet 6 inches to 15 feet 8 inches, some gravel up to ¾-inch in maximum dimension, light olive gray (5Y 5/2).	
16				Greenish gray (5G 6/1) at 15 feet 11 inches, moderately abundant dark yellowish orange (10YR 6/6) staining.	
	S-16½-EE11	13.8		Pale yellowish-brown (10YR 6/2) silt lens at 16 feet 3 inches to 16 feet 6 inches.	

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-11	C-21

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1-800-595-7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
18					
19					
20		2.6	CL/CH	Silty clay/claystone, olive gray (5Y 4/1), damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, slight petroleum odor.	
21				Grayish brown (5YR 3/2) at 20 feet 5 inches. Dark greenish–gray (5GY 4/1) and grayish brown (5YR 3/2) at 21 to 22 feet.	
22		8.0		Dark yellowish–brown (10YR 4/2) silt lens at 21 feet 8 inches to 21 feet 9 inches.	
23					
24					
25		16.7		Silty clay/claystone, dark greenish–gray (5GY 4/1) and olive gray (5Y 4/1), interbedded light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, slight petroleum odor.	
26					
27	S–26½–EE11	50.0			
28					
29					
30	S–30–EE11	5.0 26.7		Silty clay/claystone, olive gray (5Y 3/2), interbedded light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
31					
32		4.4			
33					
34					
35		1.9		Silty clay/claystone, olive gray (5Y 3/2), interbedded light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, slight petroleum odor.	
36					
37		2.6			
38					

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-11	C-22

Essel Environmental Consulting
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1–800–595–7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
40		1.9	CL/CH	Silty clay/claystone, olive gray (5Y 3/2), interbedded light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, slight petroleum odor. Light olive gray (5Y 5/2) silt lens at 40 feet 5 inches to 40 feet 7 inches.	
41					
42		13.1			
43					
44					
45		2.2		Silty clay/claystone, olive gray (5Y 3/2), interbedded light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, slight petroleum odor.	
46					
47		2.1			
48					
49					
50		4.3		Silty clay/claystone, olive gray (5Y 3/2), interbedded light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, slight petroleum odor.	
51					
52	S-51½-EE11	5.9		Total Depth = 52 feet. No ground water encountered.	
53					
54					
55					
56					
57					
58					
59					
60					

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	December 2018

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LOG OF BORING EE-11

418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE

C-23

Total depth of boring:	52 feet	Casing diameter:	NA
Diameter of boring:	6 1/4 inches	Casing material:	NA
Date drilled:	10/12/18	Slot size:	NA
Drilling Company:	Gregg Drilling & Testing, Inc.	Sand size:	NA
Driller:	DeJuan	Blank casing from	NA to NA
Drilling method:	Hollow-stem auger	Perforated casing from	NA to NA
Sample diameter:	1 3/4 inches	Annular seal from	NA to NA
Field Geologist:	Rodger Witham	Bentonite plug from	NA to NA
		Sand pack from	NA to NA

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete.	
5	S-5-EE12	1.7	CL/CH	Silty clay, trace fine- to medium-grained sand, dark greenish-gray (5G 4/1) and brownish black (5YR 2/1) mottled, some irregular dark yellowish-orange (10YR 6/6) staining and white (N9) weathered deposits, damp, medium to high plasticity, hard, trace partly decomposed plant rootlets.	
6				Dusky yellow green (5GY 5/2) at 6 feet 3 inches, some black (N1) mottling, some large very pale orange (10YR 8/2) to grayish orange (10YR 7/4) patches, stiff.	
7		3.7		Dark greenish-gray (5G 4/1) and greenish gray (5G 6/1) mottled at 6 feet 8 inches, plant root.	
10	S-10-EE12	1.9		Silty clay, dusky yellow green (5GY 5/2), some dark yellowish-orange (10YR 6/6) staining, damp, medium to high plasticity, stiff, abundant minute mica flakes.	
11				Clayey fine- to coarse-grained sand lens at 10 feet 10 inches to 11 feet, with angular gravel up to 1 inch in maximum dimension.	
				Abundant dark yellowish-orange (10YR 6/6) staining at 11 feet 1 inch to 11 feet 3 inches.	
12		2.3		Olive gray (5Y 4/1) at 11 feet 5 inches.	
				Fine- to coarse-grained sand lens at 11 feet 10 inches to 12 feet, with angular gravel up to ¾-inch in maximum dimension.	
15	S-15-EE12	4.8	CL/CH	Silty clay/claystone, moderate brown (5YR 3/2) and medium gray (N5) mottled, damp, medium to high plasticity, stiff, abundant minute mica flakes, slightly indurated in places.	
16				Grayish brown (5YR 3/2) at 16 feet.	
		4.1			

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-12	C-24

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Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
18					
19					
20		1.9	CL/CH	Silty clay/claystone, olive gray (5Y 3/2), damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, slight petroleum odor.	
21				Alternating olive gray (5Y 3/2) clay and light olive gray (5Y 5/2) silt laminae at 21 feet to 21 feet 4 inches.	
22		8.7			
23					
24					
25		8.6		Silty clay/claystone, olive gray (5Y 3/2), with light olive gray (5Y 5/2) silt laminae, damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, slight petroleum odor.	
26					
27		3.6			
28					
29					
30	S-30-EE12	2.7		Silty clay/claystone, olive gray (5Y 3/2), damp, medium to high plasticity, abundant minute mica flakes, slightly indurated in places, slight petroleum odor.	
31				Interbedded light olive gray (5Y 5/2) silt laminae at 31 feet to 31 feet 3 inches.	
32		4.9			
33					
34					
35		5.2		Silty clay/claystone, olive gray (5Y 3/2), medium light gray (N6) along weathered laminar surfaces, damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, slight petroleum odor.	
36				Interbedded light olive gray (5Y 5/2) silt laminae at 36 feet to 36 feet 4 inches.	
37		6.5			
38					

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-12	C-25

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Los Angeles, California 90026

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
40	S-40-EE12	1.5	CL/CH	Silty clay/claystone, olive gray (5Y 3/2), medium light gray (N6) along weathered laminar surfaces, damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, slight petroleum odor. Interbedded light olive gray (5Y 5/2) silt laminae at 40 feet 8 inches to 40 feet 10 inches.	
41					
42		2.9			
43					
44					
45		0.7		Silty clay/claystone, olive gray (5Y 3/2), medium light gray (N6) along weathered laminar surfaces, damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, petroleum odor. Interbedded light olive gray (5Y 5/2) silt laminae at 45 feet 3 inches to 45 feet 4 inches and 46 feet 6 inches to 46 feet 8 inches.	
46					
47		5.1			
48					
49					
50		12.3		Silty clay/claystone, olive gray (5Y 3/2), medium light gray (N6) along weathered laminar surfaces, damp, medium to high plasticity, abundant minute mica flakes, moderately indurated in places, petroleum odor. Interbedded light olive gray (5Y 5/2) silt laminae at 50 feet to 50 feet 2 inches.	
51					
52	S-51½-EE12	19.6		Total Depth = 52 feet. No ground water encountered.	
53					
54					
55					
56					
57					
58					
59					
60					

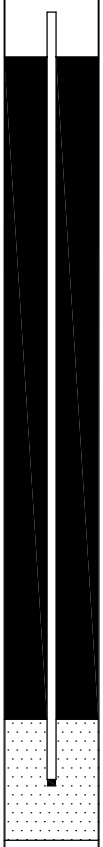
PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	December 2018	LOG OF BORING EE-12	C-26

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1035 22nd Avenue, Suite 9
Oakland, California 94606
1-800-595-7616

418, 426, and 430 Firmin Street
Los Angeles, California 90026

Total depth of boring: 7 feet
Diameter of boring: 2 1/2 inches
Date drilled: 10/10/18
Drilling Company: Gregg Drilling & Testing
Driller: DeJuan
Drilling method: Direct push
Sample diameter: NA
Field Geologist: Rodger Witham

Tubing diameter: 1/4 inch
Tubing material: Nylaflow
Slot size: NA
Sand size: No. 3 Monterey
Tubing from 0 feet to 6 1/2 feet
Perforated casing from NA to NA
Annular seal from NA to NA
Bentonite plug from 0 feet to 6 feet
Sand pack from 6 feet to 7 feet

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
1				Borehole not logged.	
2					
3					
4					
5					
6					
7					
8					
9					
10					

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	December 2018

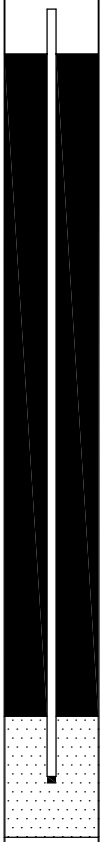
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Oakland, California 94606
1-800-595-7616

Vapor Probe Construction Diagram
EESV-2
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
C-27

Total depth of boring: 7 feet
Diameter of boring: 2 1/2 inches
Date drilled: 10/10/18
Drilling Company: Gregg Drilling & Testing
Driller: DeJuan
Drilling method: Direct push
Sample diameter: NA
Field Geologist: Rodger Witham

Tubing diameter: 1/4 inch
Tubing material: Nylaflow
Slot size: NA
Sand size: No. 3 Monterey
Tubing from 0 feet to 6 1/2 feet
Perforated casing from NA to NA
Annular seal from NA to NA
Bentonite plug from 0 feet to 6 feet
Sand pack from 6 feet to 7 feet

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
1				Borehole not logged.	
2					
3					
4					
5					
6					
7					
8					
9					
10					

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	December 2018

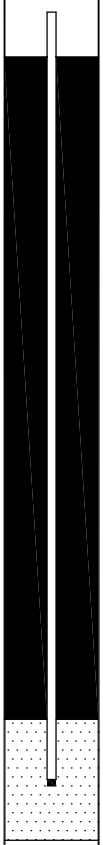
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Vapor Probe Construction Diagram
EESV-3
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
C-28

Total depth of boring: 7 feet
Diameter of boring: 2 1/2 inches
Date drilled: 10/10/18
Drilling Company: Gregg Drilling & Testing
Driller: DeJuan
Drilling method: Direct push
Sample diameter: NA
Field Geologist: Rodger Witham

Tubing diameter: 1/4 inch
Tubing material: Nylaflow
Slot size: NA
Sand size: No. 3 Monterey
Tubing from 0 feet to 6 1/2 feet
Perforated casing from NA to NA
Annular seal from NA to NA
Bentonite plug from 0 feet to 6 feet
Sand pack from 6 feet to 7 feet

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
1				Borehole not logged.	
2					
3					
4					
5					
6					
7					
8					
9					
10					

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	December 2018

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Vapor Probe Construction Diagram
EESV-4
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE
C-29

APPENDIX D

CHAIN-OF-CUSTODY FORMS
AND
LABORATORY ANALYTICAL REPORT
FOR
SOIL SAMPLES

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

18 October 2018

Rodger Witham
Essel Environmental Engineering & Consulting
1035 22nd Avenue
Oakland, CA 94606

RE: 418 - 430 Firmin

Enclosed are the results of analyses for samples received by the laboratory on 10/12/18 14:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kris Kubota
Project Manager Assistant

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-5-EE4	T183124-01	Soil	10/09/18 08:20	10/12/18 14:22
S-10-EE4	T183124-02	Soil	10/09/18 08:30	10/12/18 14:22
S-15-EE4	T183124-03	Soil	10/09/18 08:50	10/12/18 14:22
S-25-EE4	T183124-04	Soil	10/09/18 10:45	10/12/18 14:22
S-40-EE4	T183124-05	Soil	10/09/18 11:00	10/12/18 14:22
S-50-EE4	T183124-06	Soil	10/09/18 11:10	10/12/18 14:22
S-5-EE5	T183124-07	Soil	10/09/18 12:25	10/12/18 14:22
S-10-EE5	T183124-08	Soil	10/09/18 12:40	10/12/18 14:22
S-15-EE5	T183124-09	Soil	10/09/18 12:55	10/12/18 14:22
S-20-EE5	T183124-10	Soil	10/09/18 13:15	10/12/18 14:22
S-25-EE5	T183124-11	Soil	10/09/18 13:25	10/12/18 14:22
S-35-EE5	T183124-12	Soil	10/09/18 13:40	10/12/18 14:22
S-45-EE5	T183124-13	Soil	10/09/18 13:55	10/12/18 14:22
S-50-EE5	T183124-14	Soil	10/09/18 14:10	10/12/18 14:22
S-5-EE6	T183124-15	Soil	10/09/18 14:45	10/12/18 14:22
S-10-EE6	T183124-16	Soil	10/09/18 14:55	10/12/18 14:22
S-15-EE6	T183124-17	Soil	10/09/18 15:10	10/12/18 14:22
S-20-EE6	T183124-18	Soil	10/09/18 15:25	10/12/18 14:22
S-30-EE6	T183124-19	Soil	10/09/18 15:45	10/12/18 14:22
S-45-EE6	T183124-20	Soil	10/09/18 16:00	10/12/18 14:22
S-50-EE6	T183124-21	Soil	10/09/18 16:05	10/12/18 14:22
S-5-EE7	T183124-22	Soil	10/10/18 07:40	10/12/18 14:22
S-10-EE7	T183124-23	Soil	10/10/18 07:50	10/12/18 14:22
S-15-EE7	T183124-24	Soil	10/10/18 08:00	10/12/18 14:22
S-20-EE7	T183124-25	Soil	10/10/18 08:10	10/12/18 14:22
S-30-EE7	T183124-26	Soil	10/10/18 08:20	10/12/18 14:22
S-45-EE7	T183124-27	Soil	10/10/18 08:30	10/12/18 14:22
S-50-EE7	T183124-28	Soil	10/10/18 08:35	10/12/18 14:22
S-5-EE8	T183124-29	Soil	10/11/18 13:30	10/12/18 14:22

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-10-EE8	T183124-30	Soil	10/11/18 13:40	10/12/18 14:22
S-15-EE8	T183124-31	Soil	10/11/18 13:45	10/12/18 14:22
S-21 1/2-EE8	T183124-32	Soil	10/11/18 14:00	10/12/18 14:22
S-30-EE8	T183124-33	Soil	10/11/18 14:10	10/12/18 14:22
S-41 1/2-EE8	T183124-34	Soil	10/11/18 14:15	10/12/18 14:22
S-51 1/2-EE8	T183124-35	Soil	10/11/18 14:20	10/12/18 14:22
S-5-EE9	T183124-36	Soil	10/11/18 14:50	10/12/18 14:22
S-10-EE9	T183124-37	Soil	10/11/18 15:00	10/12/18 14:22
S-15-EE9	T183124-38	Soil	10/11/18 15:10	10/12/18 14:22
S-19 1/2-EE9	T183124-39	Soil	10/11/18 15:20	10/12/18 14:22
S-5-EE10	T183124-40	Soil	10/11/18 15:30	10/12/18 14:22
S-10-EE10	T183124-41	Soil	10/11/18 15:35	10/12/18 14:22
S-15-EE10	T183124-42	Soil	10/11/18 15:50	10/12/18 14:22
S-19 1/2-EE10	T183124-43	Soil	10/11/18 16:00	10/12/18 14:22
S-5-EE11	T183124-44	Soil	10/12/18 07:30	10/12/18 14:22
S-16 1/2-EE11	T183124-45	Soil	10/12/18 07:45	10/12/18 14:22
S-26 1/2-EE11	T183124-46	Soil	10/12/18 08:20	10/12/18 14:22
S-30-EE11	T183124-47	Soil	10/12/18 08:30	10/12/18 14:22
S-51 1/2-EE11	T183124-48	Soil	10/12/18 08:50	10/12/18 14:22
S-5-EE12	T183124-49	Soil	10/12/18 09:15	10/12/18 14:22
S-10-EE12	T183124-50	Soil	10/12/18 09:20	10/12/18 14:22
S-15-EE12	T183124-51	Soil	10/12/18 09:25	10/12/18 14:22
S-30-EE12	T183124-52	Soil	10/12/18 09:45	10/12/18 14:22
S-40-EE12	T183124-53	Soil	10/12/18 10:05	10/12/18 14:22
S-51 1/2-EE12	T183124-54	Soil	10/12/18 10:20	10/12/18 14:22



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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

DETECTIONS SUMMARY

Sample ID: S-5-EE4 **Laboratory ID:** T183124-01

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**16**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**28**	10	mg/kg	EPA 8015B	

Sample ID: S-10-EE4 **Laboratory ID:** T183124-02

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**97**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**540**	10	mg/kg	EPA 8015B	
Toluene	**0.0012**	0.0050	mg/kg	EPA 8260B	J

Sample ID: S-15-EE4 **Laboratory ID:** T183124-03

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**400**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**1100**	10	mg/kg	EPA 8015B	

Sample ID: S-25-EE4 **Laboratory ID:** T183124-04

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**15**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**2300**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**2700**	10	mg/kg	EPA 8015B	

Sample ID: S-40-EE4 **Laboratory ID:** T183124-05

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**12**	10	mg/kg	EPA 8015B	

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Sample ID: S-40-EE4 **Laboratory ID:** T183124-05

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**1200**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**1600**	10	mg/kg	EPA 8015B	

Sample ID: S-50-EE4 **Laboratory ID:** T183124-06

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**35**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**3800**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**4300**	10	mg/kg	EPA 8015B	

Sample ID: S-5-EE5 **Laboratory ID:** T183124-07

No Results Detected

Sample ID: S-10-EE5 **Laboratory ID:** T183124-08

Analyte	Result	Reporting Limit	Units	Method	Notes
tert-Butylbenzene	**0.0014**	0.0050	mg/kg	EPA 8260B	J

Sample ID: S-15-EE5 **Laboratory ID:** T183124-09

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**16**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**270**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**640**	10	mg/kg	EPA 8015B	

Sample ID: S-20-EE5 **Laboratory ID:** T183124-10

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**45**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**3600**	10	mg/kg	EPA 8015B	

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Sample ID: S-20-EE5 **Laboratory ID:** T183124-10

Analyte	Result	Reporting Limit	Units	Method	Notes
C29-C40 (MORO)	**4800**	10	mg/kg	EPA 8015B	

Sample ID: S-25-EE5 **Laboratory ID:** T183124-11

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**20**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**3000**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**4100**	10	mg/kg	EPA 8015B	

Sample ID: S-35-EE5 **Laboratory ID:** T183124-12

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**22**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**3100**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**4400**	10	mg/kg	EPA 8015B	

Sample ID: S-45-EE5 **Laboratory ID:** T183124-13

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**24**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**3400**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**4300**	10	mg/kg	EPA 8015B	

Sample ID: S-50-EE5 **Laboratory ID:** T183124-14

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**55**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**7500**	50	mg/kg	EPA 8015B	
C29-C40 (MORO)	**11000**	50	mg/kg	EPA 8015B	

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Sample ID: S-5-EE6 **Laboratory ID:** T183124-15

Analyte	Result	Reporting Limit	Units	Method	Notes
sec-Butylbenzene	**0.00063**	0.0050	mg/kg	EPA 8260B	J
tert-Butylbenzene	**0.00067**	0.0050	mg/kg	EPA 8260B	J
Isopropylbenzene	**0.00046**	0.0050	mg/kg	EPA 8260B	J

Sample ID: S-10-EE6 **Laboratory ID:** T183124-16

No Results Detected

Sample ID: S-15-EE6 **Laboratory ID:** T183124-17

No Results Detected

Sample ID: S-20-EE6 **Laboratory ID:** T183124-18

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**23**	10	mg/kg	EPA 8015B	

Sample ID: S-30-EE6 **Laboratory ID:** T183124-19

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**87**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**5500**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**9800**	50	mg/kg	EPA 8015B	

Sample ID: S-45-EE6 **Laboratory ID:** T183124-20

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**31**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**2300**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**3500**	10	mg/kg	EPA 8015B	

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Sample ID: S-50-EE6 **Laboratory ID:** T183124-21

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**81**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**3900**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**4900**	10	mg/kg	EPA 8015B	

Sample ID: S-5-EE7 **Laboratory ID:** T183124-22

No Results Detected

Sample ID: S-10-EE7 **Laboratory ID:** T183124-23

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**100**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**130**	10	mg/kg	EPA 8015B	

Sample ID: S-15-EE7 **Laboratory ID:** T183124-24

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**11**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**1200**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**2400**	10	mg/kg	EPA 8015B	

Sample ID: S-20-EE7 **Laboratory ID:** T183124-25

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**25**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**2900**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**4200**	10	mg/kg	EPA 8015B	

Sample ID: S-30-EE7 **Laboratory ID:** T183124-26

Analyte	Result	Reporting Limit	Units	Method	Notes

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Sample ID: S-30-EE7 **Laboratory ID:** T183124-26

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**27**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**4600**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**8200**	50	mg/kg	EPA 8015B	

Sample ID: S-45-EE7 **Laboratory ID:** T183124-27

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**58**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**7600**	100	mg/kg	EPA 8015B	
C29-C40 (MORO)	**12000**	100	mg/kg	EPA 8015B	

Sample ID: S-50-EE7 **Laboratory ID:** T183124-28

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**16**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**2200**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**3000**	10	mg/kg	EPA 8015B	

Sample ID: S-5-EE8 **Laboratory ID:** T183124-29

No Results Detected

Sample ID: S-10-EE8 **Laboratory ID:** T183124-30

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**32**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**19**	10	mg/kg	EPA 8015B	
sec-Butylbenzene	**0.0023**	0.0050	mg/kg	EPA 8260B	J
tert-Butylbenzene	**0.0016**	0.0050	mg/kg	EPA 8260B	J
Isopropylbenzene	**0.0052**	0.0050	mg/kg	EPA 8260B	
Naphthalene	**0.0031**	0.0050	mg/kg	EPA 8260B	J
n-Propylbenzene	**0.00078**	0.0050	mg/kg	EPA 8260B	J

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Sample ID: S-10-EE8 **Laboratory ID:** T183124-30

Analyte	Result	Reporting Limit	Units	Method	Notes
Ethylbenzene	**0.00080**	0.0050	mg/kg	EPA 8260B	J

Sample ID: S-15-EE8 **Laboratory ID:** T183124-31

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**270**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**110**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**640**	10	mg/kg	EPA 8015B	

Sample ID: S-21 1/2-EE8 **Laboratory ID:** T183124-32

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**1200**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**2900**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**6700**	50	mg/kg	EPA 8015B	
sec-Butylbenzene	**0.019**	0.050	mg/kg	EPA 8260B	R-07, J
tert-Butylbenzene	**0.022**	0.050	mg/kg	EPA 8260B	R-07, J
Isopropylbenzene	**0.10**	0.050	mg/kg	EPA 8260B	
n-Propylbenzene	**0.019**	0.050	mg/kg	EPA 8260B	R-07, J
Benzene	**0.011**	0.050	mg/kg	EPA 8260B	J, R-07
Ethylbenzene	**0.047**	0.050	mg/kg	EPA 8260B	R-07, J

Sample ID: S-30-EE8 **Laboratory ID:** T183124-33

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**2400**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**6600**	100	mg/kg	EPA 8015B	
C29-C40 (MORO)	**11000**	100	mg/kg	EPA 8015B	
sec-Butylbenzene	**0.070**	0.050	mg/kg	EPA 8260B	
tert-Butylbenzene	**0.071**	0.050	mg/kg	EPA 8260B	
Isopropylbenzene	**0.22**	0.050	mg/kg	EPA 8260B	
n-Propylbenzene	**0.035**	0.050	mg/kg	EPA 8260B	R-07, J
Benzene	**0.030**	0.050	mg/kg	EPA 8260B	J, R-07
Ethylbenzene	**0.091**	0.050	mg/kg	EPA 8260B	

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Sample ID: S-41 1/2-EE8 **Laboratory ID:** T183124-34

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**550**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**7400**	100	mg/kg	EPA 8015B	
C29-C40 (MORO)	**12000**	100	mg/kg	EPA 8015B	

Sample ID: S-51 1/2-EE8 **Laboratory ID:** T183124-35

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**320**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**8000**	100	mg/kg	EPA 8015B	
C29-C40 (MORO)	**12000**	100	mg/kg	EPA 8015B	
Benzene	**0.00095**	0.0050	mg/kg	EPA 8260B	J

Sample ID: S-5-EE9 **Laboratory ID:** T183124-36

No Results Detected

Sample ID: S-10-EE9 **Laboratory ID:** T183124-37

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**66**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**15**	10	mg/kg	EPA 8015B	

Sample ID: S-15-EE9 **Laboratory ID:** T183124-38

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**190**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**82**	10	mg/kg	EPA 8015B	

Sample ID: S-19 1/2-EE9 **Laboratory ID:** T183124-39

Analyte	Result	Reporting Limit	Units	Method	Notes

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Sample ID: S-19 1/2-EE9 **Laboratory ID:** T183124-39

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**450**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**1300**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**2000**	10	mg/kg	EPA 8015B	
sec-Butylbenzene	**0.0017**	0.0050	mg/kg	EPA 8260B	J
tert-Butylbenzene	**0.0019**	0.0050	mg/kg	EPA 8260B	J
Isopropylbenzene	**0.011**	0.0050	mg/kg	EPA 8260B	

Sample ID: S-5-EE10 **Laboratory ID:** T183124-40

No Results Detected

Sample ID: S-10-EE10 **Laboratory ID:** T183124-41

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**220**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**83**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**810**	10	mg/kg	EPA 8015B	

Sample ID: S-15-EE10 **Laboratory ID:** T183124-42

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**290**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**190**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**1200**	10	mg/kg	EPA 8015B	

Sample ID: S-19 1/2-EE10 **Laboratory ID:** T183124-43

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**260**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**2000**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**2700**	10	mg/kg	EPA 8015B	
Benzene	**0.0016**	0.0050	mg/kg	EPA 8260B	J

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Sample ID: S-5-EE11 **Laboratory ID:** T183124-44

No Results Detected

Sample ID: S-16 1/2-EE11 **Laboratory ID:** T183124-45

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**140**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**9.2**	10	mg/kg	EPA 8015B	J

Sample ID: S-26 1/2-EE11 **Laboratory ID:** T183124-46

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**270**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**2300**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**3000**	10	mg/kg	EPA 8015B	
Isopropylbenzene	**0.00095**	0.0050	mg/kg	EPA 8260B	J
Benzene	**0.0043**	0.0050	mg/kg	EPA 8260B	J
Ethylbenzene	**0.0017**	0.0050	mg/kg	EPA 8260B	J

Sample ID: S-30-EE11 **Laboratory ID:** T183124-47

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**530**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**870**	10	mg/kg	EPA 8015B	

Sample ID: S-51 1/2-EE11 **Laboratory ID:** T183124-48

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**4800**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**5400**	10	mg/kg	EPA 8015B	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

Sample ID: S-5-EE12 **Laboratory ID:** T183124-49

No Results Detected

Sample ID: S-10-EE12 **Laboratory ID:** T183124-50

No Results Detected

Sample ID: S-15-EE12 **Laboratory ID:** T183124-51

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**55**	10	mg/kg	EPA 8015B	

Sample ID: S-30-EE12 **Laboratory ID:** T183124-52

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**380**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**360**	10	mg/kg	EPA 8015B	

Sample ID: S-40-EE12 **Laboratory ID:** T183124-53

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**360**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**400**	10	mg/kg	EPA 8015B	

Sample ID: S-51 1/2-EE12 **Laboratory ID:** T183124-54

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**310**	100	mg/kg	EPA 8015B	
C13-C28 (DRO)	**11000**	100	mg/kg	EPA 8015B	
C29-C40 (MORO)	**18000**	100	mg/kg	EPA 8015B	

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S-5-EE4

T183124-01(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**16**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**28**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*99.6 %*	*65-135*		"	"	"	"	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE4

T183124-02(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**97**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**540**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*118 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101516	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00032	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00032	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.00099	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00051	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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S-10-EE4

T183124-02(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101516	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00037	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00051	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	**0.0012**	0.00024	0.0050	"	"	"	"	"	"	J
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*100 %*	*82.9-116*		"	"	"	"	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE4

T183124-02(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: Dibromofluoromethane			*104 %*	*80.4-132*		*8101516*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Toluene-d8			*98.5 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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S-15-EE4

T183124-03(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**400**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**1100**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*102 %*	*65-135*		"	"	"	"	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-25-EE4

T183124-04(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**15**	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**2300**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**2700**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*102 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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S-25-EE4

T183124-04(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B **M-02**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
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S-25-EE4

T183124-04(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Surrogate: 4-Bromofluorobenzene			*100 %*	*82.9-116*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane			*124 %*	*80.4-132*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8			*86.3 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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S-40-EE4

T183124-05(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**12**	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**1200**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**1600**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*108 %*	*65-135*		"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-50-EE4

T183124-06(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**35**	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**3800**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**4300**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*112 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.00050	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00064	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-50-EE4

T183124-06(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-50-EE4

T183124-06(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: 4-Bromofluorobenzene			*99.9 %*	*82.9-116*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane			*100 %*	*80.4-132*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8			*98.2 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-5-EE5

T183124-07(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*96.7 %*	*65-135*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE5

T183124-08(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*100 %*	*65-135*		*"*	*"*	*"*	*"*	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.00050	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00029	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00038	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	**0.0014**	0.00033	0.0050	"	"	"	"	"	"	J
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00025	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00064	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE5

T183124-08(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00025	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00028	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0033	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00028	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00036	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00032	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE5

T183124-08(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: 4-Bromofluorobenzene			*102 %*	*82.9-116*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane			*108 %*	*80.4-132*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8			*99.0 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-15-EE5

T183124-09(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**16**	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**270**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**640**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*107 %*	*65-135*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-20-EE5

T183124-10(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**45**	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**3600**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**4800**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*108 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00032	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00032	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.00099	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00051	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-20-EE5

T183124-10(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00037	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00051	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-20-EE5

T183124-10(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: 4-Bromofluorobenzene			*98.9 %*	*82.9-116*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane			*108 %*	*80.4-132*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8			*93.0 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-25-EE5

T183124-11(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**20**	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**3000**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**4100**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*106 %*	*65-135*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-35-EE5

T183124-12(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**22**	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**3100**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**4400**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*116 %*	*65-135*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-45-EE5

T183124-13(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**24**	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**3400**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**4300**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*107 %*	*65-135*		"	"	"	"	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-50-EE5

T183124-14(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**55**	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**7500**	1.7	50	"	5	"	"	10/18/18	"	
C29-C40 (MORO)	**11000**	1.4	50	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*115 %*	*65-135*		"	"	*10/16/18*	"	
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00032	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00032	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.00099	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00051	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-50-EE5

T183124-14(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B **M-02**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00037	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00051	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-50-EE5

T183124-14(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Surrogate: 4-Bromofluorobenzene			*96.4 %*	*82.9-116*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane			*103 %*	*80.4-132*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8			*86.0 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-5-EE6

T183124-15(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*112 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	**0.00063**	0.00033	0.0050	"	"	"	"	"	"	J
tert-Butylbenzene	**0.00067**	0.00033	0.0050	"	"	"	"	"	"	J
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-5-EE6

T183124-15(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	**0.00046**	0.00019	0.0050	"	"	"	"	"	"	J
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*106 %*	*82.9-116*		"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-5-EE6

T183124-15(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: Dibromofluoromethane			*106 %*	*80.4-132*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Toluene-d8			*100 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE6

T183124-16(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*97.6 %*	*65-135*		*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-15-EE6

T183124-17(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*110 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.00050	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00083	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00029	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00038	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00090	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00025	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00064	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-15-EE6

T183124-17(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00025	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00028	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0033	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00028	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00036	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00032	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-15-EE6

T183124-17(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: 4-Bromofluorobenzene			*99.6 %*	*82.9-116*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane			*103 %*	*80.4-132*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8			*96.9 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-20-EE6

T183124-18(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**23**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*114 %*	*65-135*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-30-EE6

T183124-19(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**87**	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**5500**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**9800**	1.4	50	"	5	"	"	10/18/18	"	
Surrogate: p-Terphenyl			*110 %*	*65-135*		*"*	*"*	*10/16/18*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-45-EE6

T183124-20(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**31**	0.25	10	mg/kg	1	8101534	10/15/18	10/16/18	EPA 8015B	
C13-C28 (DRO)	**2300**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**3500**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*110 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-45-EE6

T183124-20(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-45-EE6

T183124-20(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: 4-Bromofluorobenzene			*98.8 %*	*82.9-116*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane			*108 %*	*80.4-132*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8			*90.4 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-50-EE6

T183124-21(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**81**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**3900**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**4900**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*118 %*	*65-135*		"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-5-EE7

T183124-22(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*113 %*	*65-135*		*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE7

T183124-23(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**100**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**130**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*98.4 %*	*65-135*		*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-15-EE7

T183124-24(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**11**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**1200**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**2400**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*100 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-15-EE7

T183124-24(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B **M-02**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-15-EE7

T183124-24(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Surrogate: 4-Bromofluorobenzene			*92.6 %*	*82.9-116*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane			*106 %*	*80.4-132*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8			*88.4 %*	*83.2-113*		*"*	*"*	*"*	*"*	



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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-20-EE7

T183124-25(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**25**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**2900**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**4200**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*90.1 %*		*65-135*		*"*	*"*	*"*	*"*

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-30-EE7

T183124-26(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**27**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**4600**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**8200**	1.4	50	"	5	"	"	10/18/18	"	
Surrogate: p-Terphenyl			*95.2 %*	*65-135*		*"*	*"*	*10/17/18*	*"*	
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-30-EE7

T183124-26(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B **M-02**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-30-EE7

T183124-26(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B							**M-02**
Surrogate: 4-Bromofluorobenzene	*95.8 %*	*82.9-116*	*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*102 %*	*80.4-132*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8	*90.1 %*	*83.2-113*	*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-45-EE7

T183124-27(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**58**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**7600**	3.4	100	"	10	"	"	10/18/18	"	
C29-C40 (MORO)	**12000**	2.9	100	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*96.9 %*	*65-135*		*"*	*"*	*10/17/18*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-50-EE7

T183124-28(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**16**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**2200**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**3000**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*110 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-50-EE7

T183124-28(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-50-EE7

T183124-28(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: 4-Bromofluorobenzene			*101 %*	*82.9-116*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane			*105 %*	*80.4-132*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8			*93.2 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-5-EE8

T183124-29(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*111 %*	*65-135*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE8

T183124-30(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**32**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**19**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*103 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.00050	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00083	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00029	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00038	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	**0.0023**	0.00033	0.0050	"	"	"	"	"	"	J
tert-Butylbenzene	**0.0016**	0.00033	0.0050	"	"	"	"	"	"	J
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00090	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00025	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00064	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE8

T183124-30(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00025	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00028	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	**0.0052**	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0033	0.0050	"	"	"	"	"	"	
Naphthalene	**0.0031**	0.00028	0.0050	"	"	"	"	"	"	J
n-Propylbenzene	**0.00078**	0.00036	0.0050	"	"	"	"	"	"	J
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00032	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.00080**	0.00028	0.0050	"	"	"	"	"	"	J
m,p-Xylene	ND	0.00057	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*99.2 %*	*82.9-116*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE8

T183124-30(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: Dibromofluoromethane			*110 %*	*80.4-132*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Toluene-d8			*92.4 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-15-EE8

T183124-31(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**270**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**110**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**640**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*79.4 %*	*65-135*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-21 1/2-EE8

T183124-32(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**1200**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**2900**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**6700**	1.4	50	"	5	"	"	10/18/18	"	
Surrogate: p-Terphenyl			*101 %*	*65-135*		*"*	*"*	*10/17/18*	*"*	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.0050	0.050	mg/kg	10	8101536	10/15/18	10/17/18	EPA 8260B	R-07
Bromochloromethane	ND	0.0083	0.050	"	"	"	"	"	"	R-07
Bromodichloromethane	ND	0.0029	0.050	"	"	"	"	"	"	R-07
Bromoform	ND	0.0038	0.050	"	"	"	"	"	"	R-07
Bromomethane	ND	0.0039	0.050	"	"	"	"	"	"	R-07
n-Butylbenzene	ND	0.0026	0.050	"	"	"	"	"	"	R-07
sec-Butylbenzene	**0.019**	0.0033	0.050	"	"	"	"	"	"	R-07, J
tert-Butylbenzene	**0.022**	0.0033	0.050	"	"	"	"	"	"	R-07, J
Carbon tetrachloride	ND	0.0037	0.050	"	"	"	"	"	"	R-07
Chlorobenzene	ND	0.0037	0.050	"	"	"	"	"	"	R-07
Chloroethane	ND	0.010	0.050	"	"	"	"	"	"	R-07
Chloroform	ND	0.0016	0.050	"	"	"	"	"	"	R-07
Chloromethane	ND	0.0052	0.050	"	"	"	"	"	"	R-07
2-Chlorotoluene	ND	0.0024	0.050	"	"	"	"	"	"	R-07
4-Chlorotoluene	ND	0.0037	0.050	"	"	"	"	"	"	R-07
Dibromochloromethane	ND	0.0024	0.050	"	"	"	"	"	"	R-07
1,2-Dibromo-3-chloropropane	ND	0.0090	0.10	"	"	"	"	"	"	R-07
1,2-Dibromoethane (EDB)	ND	0.0027	0.050	"	"	"	"	"	"	R-07
Dibromomethane	ND	0.0039	0.050	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	0.0026	0.050	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	0.0029	0.050	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	0.0025	0.050	"	"	"	"	"	"	R-07
Dichlorodifluoromethane	ND	0.0064	0.050	"	"	"	"	"	"	R-07
1,1-Dichloroethane	ND	0.0031	0.050	"	"	"	"	"	"	R-07
1,2-Dichloroethane	ND	0.0063	0.050	"	"	"	"	"	"	R-07
1,1-Dichloroethene	ND	0.0037	0.050	"	"	"	"	"	"	R-07
cis-1,2-Dichloroethene	ND	0.0028	0.050	"	"	"	"	"	"	R-07

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-21 1/2-EE8

T183124-32(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.0034	0.050	mg/kg	10	8101536	10/15/18	10/17/18	EPA 8260B	R-07
1,2-Dichloropropane	ND	0.0025	0.050	"	"	"	"	"	"	R-07
1,3-Dichloropropane	ND	0.0034	0.050	"	"	"	"	"	"	R-07
2,2-Dichloropropane	ND	0.0031	0.050	"	"	"	"	"	"	R-07
1,1-Dichloropropene	ND	0.0028	0.050	"	"	"	"	"	"	R-07
cis-1,3-Dichloropropene	ND	0.0025	0.050	"	"	"	"	"	"	R-07
trans-1,3-Dichloropropene	ND	0.0038	0.050	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	0.0024	0.050	"	"	"	"	"	"	R-07
Isopropylbenzene	**0.10**	0.0019	0.050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0020	0.050	"	"	"	"	"	"	R-07
Methylene chloride	ND	0.033	0.050	"	"	"	"	"	"	R-07
Naphthalene	ND	0.0028	0.050	"	"	"	"	"	"	R-07
n-Propylbenzene	**0.019**	0.0036	0.050	"	"	"	"	"	"	R-07, J
Styrene	ND	0.0026	0.050	"	"	"	"	"	"	R-07
1,1,2,2-Tetrachloroethane	ND	0.0043	0.050	"	"	"	"	"	"	R-07
1,1,1,2-Tetrachloroethane	ND	0.0032	0.050	"	"	"	"	"	"	R-07
Tetrachloroethene	ND	0.0038	0.050	"	"	"	"	"	"	R-07
1,2,3-Trichlorobenzene	ND	0.0027	0.050	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	0.0021	0.050	"	"	"	"	"	"	R-07
1,1,2-Trichloroethane	ND	0.0050	0.050	"	"	"	"	"	"	R-07
1,1,1-Trichloroethane	ND	0.0034	0.050	"	"	"	"	"	"	R-07
Trichloroethene	ND	0.0038	0.050	"	"	"	"	"	"	R-07
Trichlorofluoromethane	ND	0.0023	0.050	"	"	"	"	"	"	R-07
1,2,3-Trichloropropane	ND	0.0052	0.050	"	"	"	"	"	"	R-07
1,3,5-Trimethylbenzene	ND	0.0013	0.050	"	"	"	"	"	"	R-07
1,2,4-Trimethylbenzene	ND	0.0035	0.050	"	"	"	"	"	"	R-07
Vinyl chloride	ND	0.0027	0.050	"	"	"	"	"	"	R-07
Benzene	**0.011**	0.0026	0.050	"	"	"	"	"	"	J, R-07
Toluene	ND	0.0024	0.050	"	"	"	"	"	"	R-07
Ethylbenzene	**0.047**	0.0028	0.050	"	"	"	"	"	"	R-07, J
m,p-Xylene	ND	0.0057	0.10	"	"	"	"	"	"	R-07
o-Xylene	ND	0.0025	0.050	"	"	"	"	"	"	R-07
Surrogate: 4-Bromofluorobenzene			*77.2 %*	*82.9-116*		"	"	"	"	*S-GC*

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-21 1/2-EE8

T183124-32(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: Dibromofluoromethane			*110 %*	*80.4-132*		*8101536*	*10/15/18*	*10/17/18*	*EPA 8260B*	
Surrogate: Toluene-d8			*91.3 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-30-EE8

T183124-33(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**2400**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**6600**	3.4	100	"	10	"	"	10/18/18	"	
C29-C40 (MORO)	**11000**	2.9	100	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*88.0 %*	*65-135*		*"*	*"*	*10/17/18*	*"*	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.0050	0.050	mg/kg	10	8101536	10/15/18	10/16/18	EPA 8260B	R-07
Bromochloromethane	ND	0.0082	0.050	"	"	"	"	"	"	R-07
Bromodichloromethane	ND	0.0028	0.050	"	"	"	"	"	"	R-07
Bromoform	ND	0.0037	0.050	"	"	"	"	"	"	R-07
Bromomethane	ND	0.0039	0.050	"	"	"	"	"	"	R-07
n-Butylbenzene	ND	0.0026	0.050	"	"	"	"	"	"	R-07
sec-Butylbenzene	**0.070**	0.0033	0.050	"	"	"	"	"	"	
tert-Butylbenzene	**0.071**	0.0033	0.050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0037	0.050	"	"	"	"	"	"	R-07
Chlorobenzene	ND	0.0037	0.050	"	"	"	"	"	"	R-07
Chloroethane	ND	0.010	0.050	"	"	"	"	"	"	R-07
Chloroform	ND	0.0016	0.050	"	"	"	"	"	"	R-07
Chloromethane	ND	0.0052	0.050	"	"	"	"	"	"	R-07
2-Chlorotoluene	ND	0.0024	0.050	"	"	"	"	"	"	R-07
4-Chlorotoluene	ND	0.0037	0.050	"	"	"	"	"	"	R-07
Dibromochloromethane	ND	0.0024	0.050	"	"	"	"	"	"	R-07
1,2-Dibromo-3-chloropropane	ND	0.0089	0.099	"	"	"	"	"	"	R-07
1,2-Dibromoethane (EDB)	ND	0.0027	0.050	"	"	"	"	"	"	R-07
Dibromomethane	ND	0.0039	0.050	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	0.0026	0.050	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	0.0029	0.050	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	0.0024	0.050	"	"	"	"	"	"	R-07
Dichlorodifluoromethane	ND	0.0064	0.050	"	"	"	"	"	"	R-07
1,1-Dichloroethane	ND	0.0031	0.050	"	"	"	"	"	"	R-07
1,2-Dichloroethane	ND	0.0062	0.050	"	"	"	"	"	"	R-07
1,1-Dichloroethene	ND	0.0036	0.050	"	"	"	"	"	"	R-07
cis-1,2-Dichloroethene	ND	0.0028	0.050	"	"	"	"	"	"	R-07

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-30-EE8

T183124-33(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.0034	0.050	mg/kg	10	8101536	10/15/18	10/16/18	EPA 8260B	R-07
1,2-Dichloropropane	ND	0.0024	0.050	"	"	"	"	"	"	R-07
1,3-Dichloropropane	ND	0.0034	0.050	"	"	"	"	"	"	R-07
2,2-Dichloropropane	ND	0.0031	0.050	"	"	"	"	"	"	R-07
1,1-Dichloropropene	ND	0.0027	0.050	"	"	"	"	"	"	R-07
cis-1,3-Dichloropropene	ND	0.0025	0.050	"	"	"	"	"	"	R-07
trans-1,3-Dichloropropene	ND	0.0038	0.050	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	0.0024	0.050	"	"	"	"	"	"	R-07
Isopropylbenzene	**0.22**	0.0019	0.050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0020	0.050	"	"	"	"	"	"	R-07
Methylene chloride	ND	0.032	0.050	"	"	"	"	"	"	R-07
Naphthalene	ND	0.0027	0.050	"	"	"	"	"	"	R-07
n-Propylbenzene	**0.035**	0.0035	0.050	"	"	"	"	"	"	R-07, J
Styrene	ND	0.0026	0.050	"	"	"	"	"	"	R-07
1,1,2,2-Tetrachloroethane	ND	0.0043	0.050	"	"	"	"	"	"	R-07
1,1,1,2-Tetrachloroethane	ND	0.0031	0.050	"	"	"	"	"	"	R-07
Tetrachloroethene	ND	0.0038	0.050	"	"	"	"	"	"	R-07
1,2,3-Trichlorobenzene	ND	0.0027	0.050	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	0.0021	0.050	"	"	"	"	"	"	R-07
1,1,2-Trichloroethane	ND	0.0050	0.050	"	"	"	"	"	"	R-07
1,1,1-Trichloroethane	ND	0.0034	0.050	"	"	"	"	"	"	R-07
Trichloroethene	ND	0.0037	0.050	"	"	"	"	"	"	R-07
Trichlorofluoromethane	ND	0.0023	0.050	"	"	"	"	"	"	R-07
1,2,3-Trichloropropane	ND	0.0052	0.050	"	"	"	"	"	"	R-07
1,3,5-Trimethylbenzene	ND	0.0013	0.050	"	"	"	"	"	"	R-07
1,2,4-Trimethylbenzene	ND	0.0035	0.050	"	"	"	"	"	"	R-07
Vinyl chloride	ND	0.0027	0.050	"	"	"	"	"	"	R-07
Benzene	**0.030**	0.0026	0.050	"	"	"	"	"	"	J, R-07
Toluene	ND	0.0024	0.050	"	"	"	"	"	"	R-07
Ethylbenzene	**0.091**	0.0028	0.050	"	"	"	"	"	"	
m,p-Xylene	ND	0.0057	0.099	"	"	"	"	"	"	R-07
o-Xylene	ND	0.0025	0.050	"	"	"	"	"	"	R-07
Surrogate: 4-Bromofluorobenzene			*47.7 %*	*82.9-116*		"	"	"	"	*S-GC*

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-30-EE8

T183124-33(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: Dibromofluoromethane			*91.1 %*	*80.4-132*		*8101536*	*10/15/18*	*10/16/18*	*EPA 8260B*	
Surrogate: Toluene-d8			*96.7 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-41 1/2-EE8

T183124-34(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**550**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**7400**	3.4	100	"	10	"	"	10/18/18	"	
C29-C40 (MORO)	**12000**	2.9	100	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*93.1 %*	*65-135*		*"*	*"*	*10/17/18*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-51 1/2-EE8

T183124-35(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**320**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**8000**	3.4	100	"	10	"	"	10/18/18	"	
C29-C40 (MORO)	**12000**	2.9	100	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*90.5 %*	*65-135*		*"*	*"*	*10/17/18*	*"*	
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00032	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00032	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.00099	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00051	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-51 1/2-EE8

T183124-35(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B **M-02**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/15/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00037	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00051	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	**0.00095**	0.00026	0.0050	"	"	"	"	"	"	J
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*98.2 %*	*82.9-116*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-51 1/2-EE8

T183124-35(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Surrogate: Dibromofluoromethane			*95.7 %*	*80.4-132*		*8101536*	*10/15/18*	*10/15/18*	*EPA 8260B*	
Surrogate: Toluene-d8			*82.6 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-5-EE9

T183124-36(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*91.5 %*	*65-135*		*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE9

T183124-37(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**66**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**15**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*118 %*	*65-135*		"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-15-EE9

T183124-38(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**190**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**82**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*68.7 %*		*65-135*	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-19 1/2-EE9

T183124-39(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**450**	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**1300**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**2000**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*113 %*	*65-135*		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B **M-02**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101536	10/15/18	10/16/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	**0.0017**	0.00033	0.0050	"	"	"	"	"	"	J
tert-Butylbenzene	**0.0019**	0.00033	0.0050	"	"	"	"	"	"	J
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-19 1/2-EE9

T183124-39(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B **M-02**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/16/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	**0.011**	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*55.3 %*	*82.9-116*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-19 1/2-EE9

T183124-39(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Surrogate: Dibromofluoromethane			*92.4 %*	*80.4-132*		*8101536*	*10/15/18*	*10/16/18*	*EPA 8260B*	
Surrogate: Toluene-d8			*90.6 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-5-EE10

T183124-40(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101535	10/15/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*97.4 %*	*65-135*		*"*	*"*	*"*	*"*	



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1035 22nd Avenue	Project Number: 18026	**Reported:**
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S-10-EE10

T183124-41(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**220**	0.25	10	mg/kg	1	8101615	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**83**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**810**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*111 %*		*65-135*		*"*	*"*	*"*	

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S-15-EE10

T183124-42(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**290**	0.25	10	mg/kg	1	8101615	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**190**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**1200**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*106 %*	*65-135*		"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-19 1/2-EE10

T183124-43(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**260**	0.25	10	mg/kg	1	8101615	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**2000**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**2700**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*107 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.00050	0.0050	mg/kg	1	8101536	10/15/18	10/16/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00029	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00038	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00025	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00064	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-19 1/2-EE10

T183124-43(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/16/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00025	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00028	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0033	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00028	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00036	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00032	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	**0.0016**	0.00026	0.0050	"	"	"	"	"	"	J
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*102 %*	*82.9-116*		"	"	"	"	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-19 1/2-EE10

T183124-43(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: Dibromofluoromethane			*106 %*	*80.4-132*		*8101536*	*10/15/18*	*10/16/18*	*EPA 8260B*	
Surrogate: Toluene-d8			*100 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-5-EE11

T183124-44(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101615	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*112 %*	*65-135*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-16 1/2-EE11

T183124-45(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**140**	0.25	10	mg/kg	1	8101615	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**9.2**	0.34	10	"	"	"	"	"	"	J
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*113 %*	*65-135*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-26 1/2-EE11

T183124-46(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**270**	0.25	10	mg/kg	1	8101615	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**2300**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**3000**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*77.4 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										
Bromobenzene	ND	0.00049	0.0050	mg/kg	1	8101536	10/15/18	10/16/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-26 1/2-EE11

T183124-46(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/16/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	**0.00095**	0.00019	0.0050	"	"	"	"	"	"	J
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	**0.0043**	0.00026	0.0050	"	"	"	"	"	"	J
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.0017**	0.00028	0.0050	"	"	"	"	"	"	J
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*92.1 %*	*82.9-116*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-26 1/2-EE11

T183124-46(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
Volatile Organic Compounds by EPA Method 8260B										
Surrogate: Dibromofluoromethane			*102 %*	*80.4-132*		*8101536*	*10/15/18*	*10/16/18*	*EPA 8260B*	
Surrogate: Toluene-d8			*97.3 %*	*83.2-113*		*"*	*"*	*"*	*"*	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-30-EE11

T183124-47(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101743	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**530**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**870**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*112 %*	*65-135*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-51 1/2-EE11

T183124-48(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101743	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**4800**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**5400**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*108 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Bromobenzene	ND	0.00050	0.0050	mg/kg	1	8101536	10/15/18	10/16/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00029	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00038	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00025	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00064	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00063	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-51 1/2-EE11

T183124-48(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B **M-02**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/16/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00025	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00028	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0033	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00028	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00036	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00032	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-51 1/2-EE11

T183124-48(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B **M-02**

Surrogate: 4-Bromofluorobenzene	*95.2 %*	*82.9-116*	*8101536*	*10/15/18*	*10/16/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*104 %*	*80.4-132*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8	*97.3 %*	*83.2-113*	*"*	*"*	*"*	*"*	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-5-EE12

T183124-49(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101743	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*106 %*	*65-135*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-10-EE12

T183124-50(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101743	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	ND	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*107 %*	*65-135*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-15-EE12

T183124-51(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101743	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**55**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*97.5 %*	*65-135*		*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-30-EE12

T183124-52(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101743	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**380**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**360**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*102 %*	*65-135*		"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-40-EE12

T183124-53(Soil)

SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	0.25	10	mg/kg	1	8101743	10/16/18	10/17/18	EPA 8015B	
C13-C28 (DRO)	**360**	0.34	10	"	"	"	"	"	"	
C29-C40 (MORO)	**400**	0.29	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*107 %*	*65-135*		"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-51 1/2-EE12

T183124-54(Soil)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup										
C6-C12 (GRO)	**310**	2.5	100	mg/kg	10	8101743	10/16/18	10/18/18	EPA 8015B	
C13-C28 (DRO)	**11000**	3.4	100	"	"	"	"	"	"	
C29-C40 (MORO)	**18000**	2.9	100	"	"	"	"	"	"	
Surrogate: p-Terphenyl			*101 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B										**M-02**
Bromobenzene	ND	0.00050	0.0050	mg/kg	1	8101536	10/15/18	10/17/18	EPA 8260B	
Bromochloromethane	ND	0.00082	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00028	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.00037	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.00033	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00037	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.00037	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0010	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.00016	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.00052	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.00024	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.00037	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00089	0.0099	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.00039	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00029	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00024	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.00064	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.00062	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00036	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-51 1/2-EE12

T183124-54(Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B **M-02**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	0.00034	0.0050	mg/kg	1	8101536	10/15/18	10/17/18	EPA 8260B	
1,2-Dichloropropane	ND	0.00024	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.00034	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.00031	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.00027	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.00024	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.00019	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.00020	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0032	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.00027	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Styrene	ND	0.00026	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00031	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00038	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00050	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00034	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.00037	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.00023	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.00052	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.00027	0.0050	"	"	"	"	"	"	
Benzene	ND	0.00026	0.0050	"	"	"	"	"	"	
Toluene	ND	0.00024	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.00028	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.00057	0.0099	"	"	"	"	"	"	
o-Xylene	ND	0.00025	0.0050	"	"	"	"	"	"	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

S-51 1/2-EE12

T183124-54(Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B **M-02**

Surrogate: 4-Bromofluorobenzene	*101 %*	*82.9-116*	*8101536*	*10/15/18*	*10/17/18*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*120 %*	*80.4-132*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8	*86.6 %*	*83.2-113*	*"*	*"*	*"*	*"*	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101534 - EPA 3550B GC											
Blank (8101534-BLK1)					Prepared: 10/15/18 Analyzed: 10/16/18						
Surrogate: p-Terphenyl	*116*			*mg/kg*	*99.0*		*117*	*65-135*			
C6-C12 (GRO)	ND	0.25	10	"							
C13-C28 (DRO)	ND	0.34	10	"							
C29-C40 (MORO)	ND	0.29	10	"							
LCS (8101534-BS1)					Prepared: 10/15/18 Analyzed: 10/16/18						
Surrogate: p-Terphenyl	*121*			*mg/kg*	*99.0*		*122*	*65-135*			
C13-C28 (DRO)	550	0.34	10	"	495		111	75-125			
LCS Dup (8101534-BSD1)					Prepared: 10/15/18 Analyzed: 10/16/18						
Surrogate: p-Terphenyl	*112*			*mg/kg*	*99.0*		*113*	*65-135*			
C13-C28 (DRO)	490	0.34	10	"	495		99.7	75-125	11.2	20	
Batch 8101535 - EPA 3550B GC											
Blank (8101535-BLK1)					Prepared: 10/15/18 Analyzed: 10/17/18						
Surrogate: p-Terphenyl	*111*			*mg/kg*	*99.0*		*112*	*65-135*			
C6-C12 (GRO)	ND	0.25	10	"							
C13-C28 (DRO)	ND	0.34	10	"							
C29-C40 (MORO)	ND	0.29	10	"							
LCS (8101535-BS1)					Prepared: 10/15/18 Analyzed: 10/17/18						
Surrogate: p-Terphenyl	*109*			*mg/kg*	*99.0*		*110*	*65-135*			
C13-C28 (DRO)	500	0.34	10	"	495		100	75-125			
LCS Dup (8101535-BSD1)					Prepared: 10/15/18 Analyzed: 10/16/18						
Surrogate: p-Terphenyl	*110*			*mg/kg*	*99.0*		*111*	*65-135*			
C13-C28 (DRO)	490	0.34	10	"	495		98.5	75-125	1.58	20	

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Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

Extractable Petroleum Hydrocarbons by 8015B with Silica Gel Cleanup - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101615 - EPA 3550B GC											
Blank (8101615-BLK1)					Prepared: 10/16/18 Analyzed: 10/17/18						
Surrogate: p-Terphenyl	*117*			*mg/kg*	*98.0*		*119*	*65-135*			
C6-C12 (GRO)	ND	0.25	10	"							
C13-C28 (DRO)	ND	0.34	10	"							
C29-C40 (MORO)	ND	0.29	10	"							
LCS (8101615-BS1)					Prepared: 10/16/18 Analyzed: 10/17/18						
Surrogate: p-Terphenyl	*115*			*mg/kg*	*98.0*		*117*	*65-135*			
C13-C28 (DRO)	460	0.34	10	"	490		94.1	75-125			
LCS Dup (8101615-BSD1)					Prepared: 10/16/18 Analyzed: 10/17/18						
Surrogate: p-Terphenyl	*117*			*mg/kg*	*98.0*		*119*	*65-135*			
C13-C28 (DRO)	500	0.34	10	"	490		102	75-125	8.28	20	
Batch 8101743 - EPA 3550B GC											
Blank (8101743-BLK1)					Prepared: 10/16/18 Analyzed: 10/17/18						
Surrogate: p-Terphenyl	*97.7*			*mg/kg*	*100*		*97.7*	*65-135*			
C6-C12 (GRO)	ND	0.25	10	"							
C13-C28 (DRO)	ND	0.34	10	"							
C29-C40 (MORO)	ND	0.29	10	"							
LCS (8101743-BS1)					Prepared: 10/16/18 Analyzed: 10/17/18						
Surrogate: p-Terphenyl	*112*			*mg/kg*	*100*		*112*	*65-135*			
C13-C28 (DRO)	560	0.34	10	"	500		112	75-125			
LCS Dup (8101743-BSD1)					Prepared: 10/16/18 Analyzed: 10/17/18						
Surrogate: p-Terphenyl	*111*			*mg/kg*	*100*		*111*	*65-135*			
C13-C28 (DRO)	560	0.34	10	"	500		111	75-125	0.503	20	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101516 - EPA 5030 GCMS											
Blank (8101516-BLK1)					Prepared & Analyzed: 10/15/18						
Surrogate: 4-Bromofluorobenzene	*0.0428*			*mg/kg*	*0.0399*		*107*	*82.9-116*			
Surrogate: Dibromofluoromethane	*0.0398*			*"*	*0.0399*		*99.7*	*80.4-132*			
Surrogate: Toluene-d8	*0.0410*			*"*	*0.0399*		*103*	*83.2-113*			
Bromobenzene	ND	0.00050	0.0050	"							
Bromochloromethane	ND	0.00082	0.0050	"							
Bromodichloromethane	ND	0.00029	0.0050	"							
Bromoform	ND	0.00038	0.0050	"							
Bromomethane	ND	0.00039	0.0050	"							
n-Butylbenzene	ND	0.00026	0.0050	"							
sec-Butylbenzene	ND	0.00033	0.0050	"							
tert-Butylbenzene	ND	0.00033	0.0050	"							
Carbon tetrachloride	ND	0.00037	0.0050	"							
Chlorobenzene	ND	0.00037	0.0050	"							
Chloroethane	ND	0.0010	0.0050	"							
Chloroform	ND	0.00016	0.0050	"							
Chloromethane	ND	0.00052	0.0050	"							
2-Chlorotoluene	ND	0.00024	0.0050	"							
4-Chlorotoluene	ND	0.00037	0.0050	"							
Dibromochloromethane	ND	0.00024	0.0050	"							
1,2-Dibromo-3-chloropropane	ND	0.00089	0.010	"							
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"							
Dibromomethane	ND	0.00039	0.0050	"							
1,2-Dichlorobenzene	ND	0.00026	0.0050	"							
1,3-Dichlorobenzene	ND	0.00029	0.0050	"							
1,4-Dichlorobenzene	ND	0.00025	0.0050	"							
Dichlorodifluoromethane	ND	0.00064	0.0050	"							
1,1-Dichloroethane	ND	0.00031	0.0050	"							

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101516 - EPA 5030 GCMS											
Blank (8101516-BLK1)					Prepared & Analyzed: 10/15/18						
1,2-Dichloroethane	ND	0.00063	0.0050	mg/kg							
1,1-Dichloroethene	ND	0.00037	0.0050	"							
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"							
trans-1,2-Dichloroethene	ND	0.00034	0.0050	"							
1,2-Dichloropropane	ND	0.00025	0.0050	"							
1,3-Dichloropropane	ND	0.00034	0.0050	"							
2,2-Dichloropropane	ND	0.00031	0.0050	"							
1,1-Dichloropropene	ND	0.00028	0.0050	"							
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"							
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"							
Hexachlorobutadiene	ND	0.00024	0.0050	"							
Isopropylbenzene	ND	0.00019	0.0050	"							
p-Isopropyltoluene	ND	0.00020	0.0050	"							
Methylene chloride	ND	0.0033	0.0050	"							
Naphthalene	ND	0.00028	0.0050	"							
n-Propylbenzene	ND	0.00036	0.0050	"							
Styrene	ND	0.00026	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.00032	0.0050	"							
Tetrachloroethene	ND	0.00038	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"							
1,1,2-Trichloroethane	ND	0.00050	0.0050	"							
1,1,1-Trichloroethane	ND	0.00034	0.0050	"							
Trichloroethene	ND	0.00038	0.0050	"							
Trichlorofluoromethane	ND	0.00023	0.0050	"							
1,2,3-Trichloropropane	ND	0.00052	0.0050	"							

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1035 22nd Avenue	Project Number: 18026	**Reported:**
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101516 - EPA 5030 GCMS											
Blank (8101516-BLK1)					Prepared & Analyzed: 10/15/18						
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	mg/kg							
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"							
Vinyl chloride	ND	0.00027	0.0050	"							
Benzene	ND	0.00026	0.0050	"							
Toluene	ND	0.00024	0.0050	"							
Ethylbenzene	ND	0.00028	0.0050	"							
m,p-Xylene	ND	0.00057	0.010	"							
o-Xylene	ND	0.00025	0.0050	"							
LCS (8101516-BS1)					Prepared & Analyzed: 10/15/18						
Surrogate: 4-Bromofluorobenzene	*0.0417*			*mg/kg*	*0.0399*		*104*	*82.9-116*			
Surrogate: Dibromofluoromethane	*0.0404*			*"*	*0.0399*		*101*	*80.4-132*			
Surrogate: Toluene-d8	*0.0409*			*"*	*0.0399*		*102*	*83.2-113*			
Chlorobenzene	0.0396	0.00037	0.0050	"	0.0399		99.2	65.2-124			
1,1-Dichloroethene	0.0387	0.00037	0.0050	"	0.0399		96.9	60.9-131			
Trichloroethene	0.0382	0.00038	0.0050	"	0.0399		95.7	62.1-126			
Benzene	0.0389	0.00026	0.0050	"	0.0399		97.5	65.3-127			
Toluene	0.0395	0.00024	0.0050	"	0.0399		99.0	64.3-122			
LCS Dup (8101516-BSD1)					Prepared & Analyzed: 10/15/18						
Surrogate: 4-Bromofluorobenzene	*0.0404*			*mg/kg*	*0.0398*		*101*	*82.9-116*			
Surrogate: Dibromofluoromethane	*0.0393*			*"*	*0.0398*		*98.7*	*80.4-132*			
Surrogate: Toluene-d8	*0.0399*			*"*	*0.0398*		*100*	*83.2-113*			
Chlorobenzene	0.0396	0.00037	0.0050	"	0.0398		99.3	65.2-124	0.0482	20	
1,1-Dichloroethene	0.0400	0.00036	0.0050	"	0.0398		100	60.9-131	3.35	20	
Trichloroethene	0.0389	0.00037	0.0050	"	0.0398		97.6	62.1-126	1.72	20	
Benzene	0.0394	0.00026	0.0050	"	0.0398		98.8	65.3-127	1.18	20	
Toluene	0.0389	0.00024	0.0050	"	0.0398		97.6	64.3-122	1.62	20	

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Providing Quality Analytical Services Nationwide

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101536 - EPA 5030 GCMS											
Blank (8101536-BLK1)				Prepared & Analyzed: 10/15/18							
Surrogate: 4-Bromofluorobenzene	*0.0416*			*mg/kg*	*0.0400*		*104*	*82.9-116*			
Surrogate: Dibromofluoromethane	*0.0362*			*"*	*0.0400*		*90.6*	*80.4-132*			
Surrogate: Toluene-d8	*0.0411*			*"*	*0.0400*		*103*	*83.2-113*			
Bromobenzene	ND	0.00050	0.0050	"							
Bromochloromethane	ND	0.00083	0.0050	"							
Bromodichloromethane	ND	0.00029	0.0050	"							
Bromoform	ND	0.00038	0.0050	"							
Bromomethane	ND	0.00039	0.0050	"							
n-Butylbenzene	ND	0.00026	0.0050	"							
sec-Butylbenzene	ND	0.00033	0.0050	"							
tert-Butylbenzene	ND	0.00033	0.0050	"							
Carbon tetrachloride	ND	0.00037	0.0050	"							
Chlorobenzene	ND	0.00037	0.0050	"							
Chloroethane	ND	0.0010	0.0050	"							
Chloroform	ND	0.00016	0.0050	"							
Chloromethane	ND	0.00052	0.0050	"							
2-Chlorotoluene	ND	0.00024	0.0050	"							
4-Chlorotoluene	ND	0.00037	0.0050	"							
Dibromochloromethane	ND	0.00024	0.0050	"							
1,2-Dibromo-3-chloropropane	ND	0.00090	0.010	"							
1,2-Dibromoethane (EDB)	ND	0.00027	0.0050	"							
Dibromomethane	ND	0.00039	0.0050	"							
1,2-Dichlorobenzene	ND	0.00026	0.0050	"							
1,3-Dichlorobenzene	ND	0.00029	0.0050	"							
1,4-Dichlorobenzene	ND	0.00025	0.0050	"							
Dichlorodifluoromethane	ND	0.00064	0.0050	"							
1,1-Dichloroethane	ND	0.00031	0.0050	"							

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101536 - EPA 5030 GCMS											
Blank (8101536-BLK1)					Prepared & Analyzed: 10/15/18						
1,2-Dichloroethane	ND	0.00063	0.0050	mg/kg							
1,1-Dichloroethene	ND	0.00037	0.0050	"							
cis-1,2-Dichloroethene	ND	0.00028	0.0050	"							
trans-1,2-Dichloroethene	ND	0.00034	0.0050	"							
1,2-Dichloropropane	ND	0.00025	0.0050	"							
1,3-Dichloropropane	ND	0.00034	0.0050	"							
2,2-Dichloropropane	ND	0.00031	0.0050	"							
1,1-Dichloropropene	ND	0.00028	0.0050	"							
cis-1,3-Dichloropropene	ND	0.00025	0.0050	"							
trans-1,3-Dichloropropene	ND	0.00038	0.0050	"							
Hexachlorobutadiene	ND	0.00024	0.0050	"							
Isopropylbenzene	ND	0.00019	0.0050	"							
p-Isopropyltoluene	ND	0.00020	0.0050	"							
Methylene chloride	ND	0.0033	0.0050	"							
Naphthalene	ND	0.00028	0.0050	"							
n-Propylbenzene	ND	0.00036	0.0050	"							
Styrene	ND	0.00026	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.00043	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.00032	0.0050	"							
Tetrachloroethene	ND	0.00038	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.00027	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.00021	0.0050	"							
1,1,2-Trichloroethane	ND	0.00050	0.0050	"							
1,1,1-Trichloroethane	ND	0.00034	0.0050	"							
Trichloroethene	ND	0.00038	0.0050	"							
Trichlorofluoromethane	ND	0.00023	0.0050	"							
1,2,3-Trichloropropane	ND	0.00052	0.0050	"							



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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101536 - EPA 5030 GCMS											
Blank (8101536-BLK1)					Prepared & Analyzed: 10/15/18						
1,3,5-Trimethylbenzene	ND	0.00013	0.0050	mg/kg							
1,2,4-Trimethylbenzene	ND	0.00035	0.0050	"							
Vinyl chloride	ND	0.00027	0.0050	"							
Benzene	ND	0.00026	0.0050	"							
Toluene	ND	0.00024	0.0050	"							
Ethylbenzene	ND	0.00028	0.0050	"							
m,p-Xylene	ND	0.00057	0.010	"							
o-Xylene	ND	0.00025	0.0050	"							
LCS (8101536-BS1)					Prepared & Analyzed: 10/15/18						
Surrogate: 4-Bromofluorobenzene	*0.0401*			*mg/kg*	*0.0400*		*100*	*82.9-116*			
Surrogate: Dibromofluoromethane	*0.0374*			*"*	*0.0400*		*93.4*	*80.4-132*			
Surrogate: Toluene-d8	*0.0407*			*"*	*0.0400*		*102*	*83.2-113*			
Chlorobenzene	0.0352	0.00037	0.0050	"	0.0400		88.1	65.2-124			
1,1-Dichloroethene	0.0351	0.00037	0.0050	"	0.0400		87.8	60.9-131			
Trichloroethene	0.0348	0.00038	0.0050	"	0.0400		87.1	62.1-126			
Benzene	0.0367	0.00026	0.0050	"	0.0400		91.8	65.3-127			
Toluene	0.0360	0.00024	0.0050	"	0.0400		90.0	64.3-122			
Matrix Spike (8101536-MS1)		**Source: T183124-04**			Prepared & Analyzed: 10/15/18						
Surrogate: 4-Bromofluorobenzene	*0.0391*			*mg/kg*	*0.0400*		*97.8*	*82.9-116*			
Surrogate: Dibromofluoromethane	*0.0418*			*"*	*0.0400*		*105*	*80.4-132*			
Surrogate: Toluene-d8	*0.0391*			*"*	*0.0400*		*97.8*	*83.2-113*			
Chlorobenzene	0.0352	0.00037	0.0050	"	0.0400	ND	88.0	75-125			
1,1-Dichloroethene	0.0382	0.00037	0.0050	"	0.0400	ND	95.6	75-125			
Trichloroethene	0.0346	0.00038	0.0050	"	0.0400	ND	86.6	75-125			
Benzene	0.0383	0.00026	0.0050	"	0.0400	ND	95.8	75-125			
Toluene	0.0345	0.00024	0.0050	"	0.0400	ND	86.3	75-125			

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101536 - EPA 5030 GCMS											
Matrix Spike Dup (8101536-MSD1)		**Source: T183124-04**		Prepared & Analyzed: 10/15/18							
Surrogate: 4-Bromofluorobenzene	*0.0392*			*mg/kg*	*0.0400*		*98.0*	*82.9-116*			
Surrogate: Dibromofluoromethane	*0.0431*			*"*	*0.0400*		*108*	*80.4-132*			
Surrogate: Toluene-d8	*0.0382*			*"*	*0.0400*		*95.4*	*83.2-113*			
Chlorobenzene	0.0367	0.00037	0.0050	"	0.0400	ND	91.9	75-125	4.34	20	
1,1-Dichloroethene	0.0390	0.00037	0.0050	"	0.0400	ND	97.6	75-125	2.07	20	
Trichloroethene	0.0350	0.00038	0.0050	"	0.0400	ND	87.5	75-125	1.03	20	
Benzene	0.0398	0.00026	0.0050	"	0.0400	ND	99.4	75-125	3.79	20	
Toluene	0.0342	0.00024	0.0050	"	0.0400	ND	85.4	75-125	0.990	20	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/18/18 15:10

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
R-07	Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.
M-02	Multiple analysis yielded poor internal standard and/or surrogate recoveries due to matrix effect. Results reported are from the most complete recovery of internal standards, however, recoveries were not within the acceptable limits of the method.
J	Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



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SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Essel Env. Engineering & Consulting
Address: 1035 22nd Avenue, Oakland, CA
Phone: 510-366-8054 Fax:
Project Manager: Rodger Witham

Date: 10/12/18 Page: 1 Of 4
Project Name: 418-430 Firmin
Collector: Rodger Witham Client Project #: 18026
Batch #: T188124 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals					Laboratory ID #	Comments/Preservative	Total # of containers
S-5-EE4	10/9/18	8:20a	Soil	P								X						01	Ice	1
S-10-EE4	10/9/18	8:30a	Soil	P	X							X						02	Ice	1
S-15-EE4	10/9/18	8:50a	Soil	P								X						03	Ice	1
S-25-EE4	10/9/18	10:45a	Soil	P	X							X						04	Ice	1
S-40-EE4	10/9/18	11:00a	Soil	P								X						05	Ice	1
S-50-EE4	10/9/18	11:10a	Soil	P	X							X						06	Ice	1
S-5-EE5	10/9/18	12:25p	Soil	P								X						07	Ice	1
S-10-EE5	10/9/18	12:40p	Soil	P	X							X						08	Ice	1
S-15-EE5	10/9/18	12:55p	Soil	P								X						09	Ice	1
S-20-EE5	10/9/18	1:15p	Soil	P	X							X						10	Ice	1
S-25-EE5	10/9/18	1:25p	Soil	P								X						11	Ice	1
S-35-EE5	10/9/18	1:40p	Soil	P								X						12	Ice	1
S-45-EE5	10/9/18	1:55p	Soil	P								X						13	Ice	1
S-50-EE5	10/9/18	2:10p	Soil	P	X							X						14	Ice	1
S-5-EE6	10/9/18	2:45p	Soil	P	X							X						15	Ice	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Rodger C. Witham	10/12/18 2:22		10.12.18 14:22
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold 2.2

Turn around time: Normal

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Essel Env. Engineering & Consulting
Address: 1035 22nd Avenue, Oakland, CA
Phone: 510-366-8054 Fax:
Project Manager: Rodger Witham

Date: 10/12/18 Page: 2 Of 4
Project Name: 418-430 Firmin
Collector: Rodger Witham Client Project #: 18026
Batch #: 7183124 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals						Laboratory ID #	Comments/Preservative	Total # of containers
S-10-EE6	10/9/18	2:55p	Soil	P								X							16	Ice	1
S-15-EE6	10/9/18	3:10p	Soil	P	X							X							17	Ice	1
S-20-EE6	10/9/18	3:25p	Soil	P								X							18	Ice	1
S-30-EE6	10/9/18	3:45p	Soil	P								X							19	Ice	1
S-45-EE6	10/9/18	4:00p	Soil	P	X							X							20	Ice	1
S-50-EE6	10/9/18	4:05p	Soil	P								X							21	Ice	1
S-5-EE7	10/10/18	7:40a	Soil	P								X							22	Ice	1
S-10-EE7	10/10/18	7:50a	Soil	P								X							23	Ice	1
S-15-EE7	10/10/18	8:00a	Soil	P	X							X							24	Ice	1
S-20-EE7	10/10/18	8:10a	Soil	P								X							25	Ice	1
S-30-EE7	10/10/18	8:20a	Soil	P	X							X							26	Ice	1
S-45-EE7	10/10/18	8:30a	Soil	P								X							27	Ice	1
S-50-EE7	10/10/18	8:35a	Soil	P	X							X							28	Ice	1
S-5-EE8	10/11/18	1:30p.	Soil	P								X							29	Ice	1
S-10-EE8	10/11/18	1:40p.	Soil	P	X							X							30	Ice	1

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Rodger C. Witham	10/12/18 2:22p.m.		10.12.18 14:22
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold 2.2

Turn around time: Normal

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Essel Env. Engineering & Consulting
Address: 1035 22nd Avenue, Oakland, CA
Phone: 510-366-8054 Fax:
Project Manager: Rodger Witham

Date: 10/12/18 Page: 3 Of 4
Project Name: 418-430 Firmin
Collector: Rodger Witham Client Project #: 18026
Batch #: 718324 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals						Laboratory ID #	Comments/Preservative	Total # of containers
S-15-EE8	10/11/18	1:45p	Soil	P								X							31	Ice	1
S-21½-EE8	10/11/18	2:00p	Soil	P	X							X							32	Ice	1
S-30-EE8	10/11/18	2:10p	Soil	P	X							X							33	Ice	1
S-41½-EE8	10/11/18	2:15p	Soil	P								X							34	Ice	1
S-51½-EE8	10/11/18	2:20p	Soil	P	X							X							35	Ice	1
S-5-EE9	10/11/18	2:50p	Soil	P								X							36	Ice	1
S-10-EE9	10/11/18	3:00p.	Soil	P								X							37	Ice	1
S-15-EE9	10/11/18	3:10p.	Soil	P								X							38	Ice	1
~~S-20-EE9~~ ACW	—	—	—																		
S-19½-EE9	10/11/18	3:20p	Soil	P	X							X							39	Ice	1
S-5-EE10	10/11/18	3:30p	Soil	P								X							40	Ice	1
S-10-EE10	10/11/18	3:35p.	Soil	P								X							41	Ice	1
S-15-EE10	10/11/18	3:50p.	Soil	P								X							42	Ice	1
S-19½-EE10	10/11/18	4:00p.	Soil	P	X							X							43	Ice	1

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Rodger O. Witham	10/12/18 2:22pm		10.12.18 14:22
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold 2.2
Turn around time: Normal

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

Chain of Custody Record

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Client: Essel Environmental Engineering & Consulting
Address: 1035 22nd Avenue, Oakland, CA
Phone: 510-366-8054 Fax:
Project Manager: Rodger Witham

Date: 10/12/18 Page: 4 Of 4
Project Name: 418-430 Firmin
Collector: Rodger Witham Client Project #: 18026
Batch #: 7183124 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals					Laboratory ID #	Comments/Preservative	Total # of containers
S-5-EE11	10/12/18	7:30a	Soil	P								X						44	Ice	1
S-16½-EE11	10/12/18	7:45a	Soil	P								X						45	Ice	1
S-26½-EE11	10/12/18	8:20a	Soil	P	X							X						46	Ice	1
S-30-EE11	10/12/18	8:30a	Soil	P								X						47	Ice	1
RCW S-51½-EE11	10/12/18	8:50a	Soil	P	X							X						48	Ice	1
S-5-EE12	10/12/18	9:15	Soil	P								X						49	Ice	1
S-10-EE12	10/12/18	9:20	Soil	P								X						50	Ice	1
S-15-EE12	10/12/18	9:25	Soil	P								X						51	Ice	1
S-30-EE12	10/12/18	9:45	Soil	P								X						52	Ice	1
S-40-EE12	10/12/18	10:05	Soil	P								X						53	Ice	1
S-51½-EE12	10/12/18	10:20	Soil	P	X							X						54	Ice	1

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Rodger C. Witham	10/12/18 2:22 pm		10-12-18 14:22
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold 2.2

Turn around time: Normal

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

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SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T183124

Client Name: ESSEL ENV. Project: 418-430 FIRMIN

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: Date/Time Courier Received:

Lab Received by: SUNNY Date/Time Lab Received: 10.12.18 / 14:22

Total number of coolers received: 0

Temperature: Cooler #1 1.0	°C +/- the CF (1.2°C)	= 2.2	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (1.2°C)	=	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (1.2°C)	=	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ **Yes**	☐ **No**
If NO: Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**	
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**	

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☐ Yes	☒ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☐ **Yes**	☒ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: SL 10.12.18

Comments:

SunStar Laboratories

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

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SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # 7183129

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking/Damaged
  - ☐ Other:
- **CUSTODY SEALS**
  - ☐ None
  - ☐ Not Intact
- **TEMPERATURE (Temp criteria = ≤ 6°C)**
  - ☐ Cooler/Sample Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Broken
  - ☐ Extra ☐ Missing
- **LABELS**
  - ☐ Not the same sample ID / info as on the COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
- **SAMPLES**
  - ☐ Samples **NOT RECEIVED** but listed on COC
  - ☒ Samples received but **NOT LISTED** on COC
  - ☐ Logged based on Label Information and not COC
  - ☐ Logged according to Work Plan and not COC
  - ☐ Logged in, **ON HOLD** until further notice
  - ☐ Insufficient quantities for analysis
  - ☐ Improper container used
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Not preserved/Improper preservative used
  - ☐ Without Labels, no information on containers
  - ☐ Other

Comments: SAMPLES (S-35-EE11) & (S-41 1/2-EE11) WERE RECEIVED BUT NOT LISTED ON COC.

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

Kris Kubota

From: Kris Kubota [kris@sunstarlabs.com]
Sent: Monday, October 15, 2018 8:21 AM
To: 'Rodger Witham'
Subject: RE: Work Order and Chain of Custody Confirmation for 418-430 Firmin (T183124)
Attachments: T183124_WKO_02.pdf; image001.png

Hi Rodger,

Not a problem! I've added the silica gel cleanup for all the soil samples. Please see attached work order for confirmation.

Kris Kubota
Project Manager/Regional Account Manager

SunStar Laboratories

25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

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From: Rodger Witham [mailto:Rodger@esseltek.com]
Sent: Sunday, October 14, 2018 6:07 PM
To: kris@sunstarlabs.com
Subject: Re: Work Order and Chain of Custody Confirmation for 418-430 Firmin (T183124)

Kris:

Please make sure that **all soil samples are subjected to the silica gel cleanup** before analyzing for diesel and motor oil range petroleum hydrocarbons. I neglected to put this note on the chain of custody forms.

Thanks

Rodger Witham
Essel Environmental Consulting
510-366-8054
rodger@esseltek.com

On Fri, Oct 12, 2018 at 5:03 PM Kris Kubota <kris@sunstarlabs.com> wrote:

> Good Afternoon,
>
> Attached is the work order confirmation and chain of custody we received at: 10/12/2018 at 14:22

Project: 418-430 Firmin

Project Number: 18026

Per Chain of Custody, the requested TAT is: 3-DAY STD

Results will be sent by COB: 10/17/2018

Per our phone conversation, we will dispose of sample S-35-EE11 and S-41 1/2-EE11.

Please carefully review the attachments and feel free to contact me if you have any questions or concerns.

Thank you for choosing SunStar Labs!

Kris Kubota

Project Manager/Regional Account Manager



25712 Commercentre Dr., Lake Forest, CA 92630

Office: (949) 297-5020 | Fax: (949) 297-5027

CA ELAP Certification: 2250 | CA Small Business Certification: 31511

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Kris Kubota

From: Rodger Witham [Rodger@esseltek.com]
Sent: Sunday, October 14, 2018 6:02 PM
To: kris@sunstarlabs.com
Subject: Re: 418-430 Firmin
Attachments: image001.png; image001.png

Kris:
My mistake in submitting samples S-35-EE11 and S-41 1/2-EE11. These two samples are not to be analyzed.

Thanks

Rodger Witham
Essel Environmental Consulting
510-366-8054
rodger@esseltek.com

On Fri, Oct 12, 2018 at 4:34 PM Kris Kubota <kris@sunstarlabs.com> wrote:

> Hi Rodger,
>
> When we were logging the samples in our system, we noticed that S-35-EE11, and S-41 1/2-EE11 were not listed on the COC. Are we analyzing the samples, and for what analyses?
>
> Thank you!
>
> **Kris Kubota**
>
> **Project Manager/Regional Account Manager**
>
> 
>
> _____
>
> 25712 Commercentre Dr., Lake Forest, CA 92630
>
> Office: (949) 297-5020 | Fax: (949) 297-5027
>
> CA ELAP Certification: 2250 | CA Small Business Certification: 31511
>
> _____

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SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: **Essel Environmental Engineering & Consulting** **Project Manager:** **Kris Kubota**
Project: **418 - 430 Firmin** **Project Number:** **18026**

Report To:
Essel Environmental Engineering & Consulting
Rodger Witham
1035 22nd Avenue
Oakland, CA 94606

Date Due:	10/17/18 17:00 (3 day TAT)		
Received By:	Sunny Lounethone	Date Received:	10/12/18 14:22
Logged In By:	Sunny Lounethone	Date Logged In:	10/12/18 15:08

Samples Received at: **2.2°C**

Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirı	No		

Analysis	Due	TAT	Expires	Comments
T183124-01 S-5-EE4 [Soil] Sampled 10/09/18 08:20 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 08:20	
T183124-02 S-10-EE4 [Soil] Sampled 10/09/18 08:30 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 08:30	
8260	10/17/18 15:00	3	10/23/18 08:30	
T183124-03 S-15-EE4 [Soil] Sampled 10/09/18 08:50 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 08:50	
T183124-04 S-25-EE4 [Soil] Sampled 10/09/18 10:45 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 10:45	
8260	10/17/18 15:00	3	10/23/18 10:45	
T183124-05 S-40-EE4 [Soil] Sampled 10/09/18 11:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 11:00	
T183124-06 S-50-EE4 [Soil] Sampled 10/09/18 11:10 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 11:10	
8260	10/17/18 15:00	3	10/23/18 11:10	
T183124-07 S-5-EE5 [Soil] Sampled 10/09/18 12:25 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 12:25	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-08 S-10-EE5 [Soil] Sampled 10/09/18 12:40 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 12:40	
8260	10/17/18 15:00	3	10/23/18 12:40	
T183124-09 S-15-EE5 [Soil] Sampled 10/09/18 12:55 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 12:55	
T183124-10 S-20-EE5 [Soil] Sampled 10/09/18 13:15 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 13:15	
8260	10/17/18 15:00	3	10/23/18 13:15	
T183124-11 S-25-EE5 [Soil] Sampled 10/09/18 13:25 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 13:25	
T183124-12 S-35-EE5 [Soil] Sampled 10/09/18 13:40 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 13:40	
T183124-13 S-45-EE5 [Soil] Sampled 10/09/18 13:55 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 13:55	
T183124-14 S-50-EE5 [Soil] Sampled 10/09/18 14:10 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 14:10	
8260	10/17/18 15:00	3	10/23/18 14:10	
T183124-15 S-5-EE6 [Soil] Sampled 10/09/18 14:45 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 14:45	
8260	10/17/18 15:00	3	10/23/18 14:45	
T183124-16 S-10-EE6 [Soil] Sampled 10/09/18 14:55 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 14:55	
T183124-17 S-15-EE6 [Soil] Sampled 10/09/18 15:10 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 15:10	
8260	10/17/18 15:00	3	10/23/18 15:10	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-18 S-20-EE6 [Soil] Sampled 10/09/18 15:25 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 15:25	
T183124-19 S-30-EE6 [Soil] Sampled 10/09/18 15:45 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 15:45	
T183124-20 S-45-EE6 [Soil] Sampled 10/09/18 16:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 16:00	
8260	10/17/18 15:00	3	10/23/18 16:00	
T183124-21 S-50-EE6 [Soil] Sampled 10/09/18 16:05 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/23/18 16:05	
T183124-22 S-5-EE7 [Soil] Sampled 10/10/18 07:40 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/24/18 07:40	
T183124-23 S-10-EE7 [Soil] Sampled 10/10/18 07:50 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/24/18 07:50	
T183124-24 S-15-EE7 [Soil] Sampled 10/10/18 08:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/24/18 08:00	
8260	10/17/18 15:00	3	10/24/18 08:00	
T183124-25 S-20-EE7 [Soil] Sampled 10/10/18 08:10 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/24/18 08:10	
T183124-26 S-30-EE7 [Soil] Sampled 10/10/18 08:20 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/24/18 08:20	
8260	10/17/18 15:00	3	10/24/18 08:20	
T183124-27 S-45-EE7 [Soil] Sampled 10/10/18 08:30 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/24/18 08:30	
T183124-28 S-50-EE7 [Soil] Sampled 10/10/18 08:35 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/24/18 08:35	
8260	10/17/18 15:00	3	10/24/18 08:35	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-29 S-5-EE8 [Soil] Sampled 10/11/18 13:30 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 13:30	
T183124-30 S-10-EE8 [Soil] Sampled 10/11/18 13:40 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 13:40	
8260	10/17/18 15:00	3	10/25/18 13:40	
T183124-31 S-15-EE8 [Soil] Sampled 10/11/18 13:45 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 13:45	
T183124-32 S-21 1/2-EE8 [Soil] Sampled 10/11/18 14:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 14:00	
8260	10/17/18 15:00	3	10/25/18 14:00	
T183124-33 S-30-EE8 [Soil] Sampled 10/11/18 14:10 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 14:10	
8260	10/17/18 15:00	3	10/25/18 14:10	
T183124-34 S-41 1/2-EE8 [Soil] Sampled 10/11/18 14:15 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 14:15	
T183124-35 S-51 1/2-EE8 [Soil] Sampled 10/11/18 14:20 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 14:20	
8260	10/17/18 15:00	3	10/25/18 14:20	
T183124-36 S-5-EE9 [Soil] Sampled 10/11/18 14:50 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 14:50	
T183124-37 S-10-EE9 [Soil] Sampled 10/11/18 15:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 15:00	
T183124-38 S-15-EE9 [Soil] Sampled 10/11/18 15:10 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 15:10	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-39 S-19 1/2-EE9 [Soil] Sampled 10/11/18 15:20 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 15:20	
8260	10/17/18 15:00	3	10/25/18 15:20	
T183124-40 S-5-EE10 [Soil] Sampled 10/11/18 15:30 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 15:30	
T183124-41 S-10-EE10 [Soil] Sampled 10/11/18 15:35 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 15:35	
T183124-42 S-15-EE10 [Soil] Sampled 10/11/18 15:50 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 15:50	
T183124-43 S-19 1/2-EE10 [Soil] Sampled 10/11/18 16:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 16:00	
8260	10/17/18 15:00	3	10/25/18 16:00	
T183124-44 S-5-EE11 [Soil] Sampled 10/12/18 07:30 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/26/18 07:30	
T183124-45 S-16 1/2-EE11 [Soil] Sampled 10/12/18 07:45 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/26/18 07:45	
T183124-46 S-26 1/2-EE11 [Soil] Sampled 10/12/18 08:20 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/26/18 08:20	
8260	10/17/18 15:00	3	10/26/18 08:20	
T183124-47 S-30-EE11 [Soil] Sampled 10/12/18 08:30 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/26/18 08:30	
T183124-48 S-51 1/2-EE11 [Soil] Sampled 10/12/18 08:50 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/26/18 08:50	
8260	10/17/18 15:00	3	10/26/18 08:50	
T183124-49 S-5-EE12 [Soil] Sampled 10/12/18 09:15 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/26/18 09:15	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-50 S-10-EE12 [Soil] Sampled 10/12/18 09:20 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/26/18 09:20	
T183124-51 S-15-EE12 [Soil] Sampled 10/12/18 09:25 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/26/18 09:25	
T183124-52 S-30-EE12 [Soil] Sampled 10/12/18 09:45 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/26/18 09:45	
T183124-53 S-40-EE12 [Soil] Sampled 10/12/18 10:05 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/26/18 10:05	
T183124-54 S-51 1/2-EE12 [Soil] Sampled 10/12/18 10:20 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/26/18 10:20	
8260	10/17/18 15:00	3	10/26/18 10:20	

Reviewed By

Date

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: **Essel Environmental Engineering & Consulting** **Project Manager:** **Kris Kubota**
Project: **418 - 430 Firmin** **Project Number:** **18026**

Report To:
Essel Environmental Engineering & Consulting
Rodger Witham
1035 22nd Avenue
Oakland, CA 94606

Date Due:	10/17/18 17:00 (3 day TAT)		
Received By:	Sunny Lounethone	Date Received:	10/12/18 14:22
Logged In By:	Sunny Lounethone	Date Logged In:	10/12/18 15:08

Samples Received at: **2.2°C**

Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirı	No		

Analysis	Due	TAT	Expires	Comments
T183124-01 S-5-EE4 [Soil] Sampled 10/09/18 08:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 08:20	
T183124-02 S-10-EE4 [Soil] Sampled 10/09/18 08:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 08:30	
8260	10/17/18 15:00	3	10/23/18 08:30	
T183124-03 S-15-EE4 [Soil] Sampled 10/09/18 08:50 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 08:50	
T183124-04 S-25-EE4 [Soil] Sampled 10/09/18 10:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 10:45	
8260	10/17/18 15:00	3	10/23/18 10:45	
T183124-05 S-40-EE4 [Soil] Sampled 10/09/18 11:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 11:00	
T183124-06 S-50-EE4 [Soil] Sampled 10/09/18 11:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 11:10	
8260	10/17/18 15:00	3	10/23/18 11:10	
T183124-07 S-5-EE5 [Soil] Sampled 10/09/18 12:25 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 12:25	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-08 S-10-EE5 [Soil] Sampled 10/09/18 12:40 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 12:40	
8260	10/17/18 15:00	3	10/23/18 12:40	
T183124-09 S-15-EE5 [Soil] Sampled 10/09/18 12:55 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 12:55	
T183124-10 S-20-EE5 [Soil] Sampled 10/09/18 13:15 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 13:15	
8260	10/17/18 15:00	3	10/23/18 13:15	
T183124-11 S-25-EE5 [Soil] Sampled 10/09/18 13:25 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 13:25	
T183124-12 S-35-EE5 [Soil] Sampled 10/09/18 13:40 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 13:40	
T183124-13 S-45-EE5 [Soil] Sampled 10/09/18 13:55 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 13:55	
T183124-14 S-50-EE5 [Soil] Sampled 10/09/18 14:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 14:10	
8260	10/17/18 15:00	3	10/23/18 14:10	
T183124-15 S-5-EE6 [Soil] Sampled 10/09/18 14:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 14:45	
8260	10/17/18 15:00	3	10/23/18 14:45	
T183124-16 S-10-EE6 [Soil] Sampled 10/09/18 14:55 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 14:55	
T183124-17 S-15-EE6 [Soil] Sampled 10/09/18 15:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 15:10	
8260	10/17/18 15:00	3	10/23/18 15:10	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-18 S-20-EE6 [Soil] Sampled 10/09/18 15:25 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 15:25	
T183124-19 S-30-EE6 [Soil] Sampled 10/09/18 15:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 15:45	
T183124-20 S-45-EE6 [Soil] Sampled 10/09/18 16:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 16:00	
8260	10/17/18 15:00	3	10/23/18 16:00	
T183124-21 S-50-EE6 [Soil] Sampled 10/09/18 16:05 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 16:05	
T183124-22 S-5-EE7 [Soil] Sampled 10/10/18 07:40 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 07:40	
T183124-23 S-10-EE7 [Soil] Sampled 10/10/18 07:50 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 07:50	
T183124-24 S-15-EE7 [Soil] Sampled 10/10/18 08:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 08:00	
8260	10/17/18 15:00	3	10/24/18 08:00	
T183124-25 S-20-EE7 [Soil] Sampled 10/10/18 08:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 08:10	
T183124-26 S-30-EE7 [Soil] Sampled 10/10/18 08:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 08:20	
8260	10/17/18 15:00	3	10/24/18 08:20	
T183124-27 S-45-EE7 [Soil] Sampled 10/10/18 08:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 08:30	
T183124-28 S-50-EE7 [Soil] Sampled 10/10/18 08:35 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 08:35	
8260	10/17/18 15:00	3	10/24/18 08:35	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project Manager: Kris Kubota
Project: 418 - 430 Firmin
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-29 S-5-EE8 [Soil] Sampled 10/11/18 13:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 13:30	
T183124-30 S-10-EE8 [Soil] Sampled 10/11/18 13:40 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 13:40	
8260	10/17/18 15:00	3	10/25/18 13:40	
T183124-31 S-15-EE8 [Soil] Sampled 10/11/18 13:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 13:45	
T183124-32 S-21 1/2-EE8 [Soil] Sampled 10/11/18 14:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 14:00	
8260	10/17/18 15:00	3	10/25/18 14:00	
T183124-33 S-30-EE8 [Soil] Sampled 10/11/18 14:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 14:10	
8260	10/17/18 15:00	3	10/25/18 14:10	
T183124-34 S-41 1/2-EE8 [Soil] Sampled 10/11/18 14:15 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 14:15	
T183124-35 S-51 1/2-EE8 [Soil] Sampled 10/11/18 14:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 14:20	
8260	10/17/18 15:00	3	10/25/18 14:20	
T183124-36 S-5-EE9 [Soil] Sampled 10/11/18 14:50 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 14:50	
T183124-37 S-10-EE9 [Soil] Sampled 10/11/18 15:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:00	
T183124-38 S-15-EE9 [Soil] Sampled 10/11/18 15:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:10	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-39 S-19 1/2-EE9 [Soil] Sampled 10/11/18 15:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:20	
8260	10/17/18 15:00	3	10/25/18 15:20	
T183124-40 S-5-EE10 [Soil] Sampled 10/11/18 15:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:30	
T183124-41 S-10-EE10 [Soil] Sampled 10/11/18 15:35 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:35	
T183124-42 S-15-EE10 [Soil] Sampled 10/11/18 15:50 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:50	
T183124-43 S-19 1/2-EE10 [Soil] Sampled 10/11/18 16:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	10/17/18 15:00	3	10/25/18 16:00	
8260	10/17/18 15:00	3	10/25/18 16:00	
T183124-44 S-5-EE11 [Soil] Sampled 10/12/18 07:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 07:30	
T183124-45 S-16 1/2-EE11 [Soil] Sampled 10/12/18 07:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 07:45	
T183124-46 S-26 1/2-EE11 [Soil] Sampled 10/12/18 08:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 08:20	
8260	10/17/18 15:00	3	10/26/18 08:20	
T183124-47 S-30-EE11 [Soil] Sampled 10/12/18 08:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 08:30	
T183124-48 S-51 1/2-EE11 [Soil] Sampled 10/12/18 08:50 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 08:50	
8260	10/17/18 15:00	3	10/26/18 08:50	
T183124-49 S-5-EE12 [Soil] Sampled 10/12/18 09:15 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 09:15	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-50 S-10-EE12 [Soil] Sampled 10/12/18 09:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 09:20	
T183124-51 S-15-EE12 [Soil] Sampled 10/12/18 09:25 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 09:25	
T183124-52 S-30-EE12 [Soil] Sampled 10/12/18 09:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 09:45	
T183124-53 S-40-EE12 [Soil] Sampled 10/12/18 10:05 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 10:05	
T183124-54 S-51 1/2-EE12 [Soil] Sampled 10/12/18 10:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 10:20	
8260	10/17/18 15:00	3	10/26/18 10:20	

Reviewed By

Date

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: **Essel Environmental Engineering & Consulting** **Project Manager:** **Kris Kubota**
Project: **418 - 430 Firmin** **Project Number:** **18026**

Report To:
Essel Environmental Engineering & Consulting
Rodger Witham
1035 22nd Avenue
Oakland, CA 94606

Date Due:	10/17/18 17:00 (3 day TAT)		
Received By:	Sunny Lounethone	Date Received:	10/12/18 14:22
Logged In By:	Sunny Lounethone	Date Logged In:	10/12/18 15:08

Samples Received at: **2.2°C**

Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirı	No		

Analysis	Due	TAT	Expires	Comments
T183124-01 S-5-EE4 [Soil] Sampled 10/09/18 08:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 08:20	
T183124-02 S-10-EE4 [Soil] Sampled 10/09/18 08:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 08:30	
8260	10/17/18 15:00	3	10/23/18 08:30	
T183124-03 S-15-EE4 [Soil] Sampled 10/09/18 08:50 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 08:50	
T183124-04 S-25-EE4 [Soil] Sampled 10/09/18 10:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 10:45	
8260	10/17/18 15:00	3	10/23/18 10:45	
T183124-05 S-40-EE4 [Soil] Sampled 10/09/18 11:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 11:00	
T183124-06 S-50-EE4 [Soil] Sampled 10/09/18 11:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 11:10	
8260	10/17/18 15:00	3	10/23/18 11:10	
T183124-07 S-5-EE5 [Soil] Sampled 10/09/18 12:25 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 12:25	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-08 S-10-EE5 [Soil] Sampled 10/09/18 12:40 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 12:40	
8260	10/17/18 15:00	3	10/23/18 12:40	
T183124-09 S-15-EE5 [Soil] Sampled 10/09/18 12:55 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 12:55	
T183124-10 S-20-EE5 [Soil] Sampled 10/09/18 13:15 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 13:15	
8260	10/17/18 15:00	3	10/23/18 13:15	
T183124-11 S-25-EE5 [Soil] Sampled 10/09/18 13:25 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 13:25	
T183124-12 S-35-EE5 [Soil] Sampled 10/09/18 13:40 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 13:40	
T183124-13 S-45-EE5 [Soil] Sampled 10/09/18 13:55 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 13:55	
T183124-14 S-50-EE5 [Soil] Sampled 10/09/18 14:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 14:10	
8260	10/17/18 15:00	3	10/23/18 14:10	
T183124-15 S-5-EE6 [Soil] Sampled 10/09/18 14:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 14:45	
8260	10/17/18 15:00	3	10/23/18 14:45	
T183124-16 S-10-EE6 [Soil] Sampled 10/09/18 14:55 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 14:55	
T183124-17 S-15-EE6 [Soil] Sampled 10/09/18 15:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 15:10	
8260	10/17/18 15:00	3	10/23/18 15:10	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-18 S-20-EE6 [Soil] Sampled 10/09/18 15:25 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 15:25	
T183124-19 S-30-EE6 [Soil] Sampled 10/09/18 15:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 15:45	
T183124-20 S-45-EE6 [Soil] Sampled 10/09/18 16:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 16:00	
8260	10/17/18 15:00	3	10/23/18 16:00	
T183124-21 S-50-EE6 [Soil] Sampled 10/09/18 16:05 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/23/18 16:05	
T183124-22 S-5-EE7 [Soil] Sampled 10/10/18 07:40 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 07:40	
T183124-23 S-10-EE7 [Soil] Sampled 10/10/18 07:50 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 07:50	
T183124-24 S-15-EE7 [Soil] Sampled 10/10/18 08:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 08:00	
8260	10/17/18 15:00	3	10/24/18 08:00	
T183124-25 S-20-EE7 [Soil] Sampled 10/10/18 08:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 08:10	
T183124-26 S-30-EE7 [Soil] Sampled 10/10/18 08:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 08:20	
8260	10/17/18 15:00	3	10/24/18 08:20	
T183124-27 S-45-EE7 [Soil] Sampled 10/10/18 08:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 08:30	
T183124-28 S-50-EE7 [Soil] Sampled 10/10/18 08:35 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/24/18 08:35	
8260	10/17/18 15:00	3	10/24/18 08:35	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project Manager: Kris Kubota
Project: 418 - 430 Firmin
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-29 S-5-EE8 [Soil] Sampled 10/11/18 13:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 13:30	
T183124-30 S-10-EE8 [Soil] Sampled 10/11/18 13:40 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 13:40	
8260	10/17/18 15:00	3	10/25/18 13:40	
T183124-31 S-15-EE8 [Soil] Sampled 10/11/18 13:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 13:45	
T183124-32 S-21 1/2-EE8 [Soil] Sampled 10/11/18 14:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 14:00	
8260	10/17/18 15:00	3	10/25/18 14:00	
T183124-33 S-30-EE8 [Soil] Sampled 10/11/18 14:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 14:10	
8260	10/17/18 15:00	3	10/25/18 14:10	
T183124-34 S-41 1/2-EE8 [Soil] Sampled 10/11/18 14:15 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 14:15	
T183124-35 S-51 1/2-EE8 [Soil] Sampled 10/11/18 14:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 14:20	
8260	10/17/18 15:00	3	10/25/18 14:20	
T183124-36 S-5-EE9 [Soil] Sampled 10/11/18 14:50 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 14:50	
T183124-37 S-10-EE9 [Soil] Sampled 10/11/18 15:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:00	
T183124-38 S-15-EE9 [Soil] Sampled 10/11/18 15:10 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:10	

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project Manager: Kris Kubota
Project: 418 - 430 Firmin
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-39 S-19 1/2-EE9 [Soil] Sampled 10/11/18 15:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:20	
8260	10/17/18 15:00	3	10/25/18 15:20	
T183124-40 S-5-EE10 [Soil] Sampled 10/11/18 15:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:30	
T183124-41 S-10-EE10 [Soil] Sampled 10/11/18 15:35 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:35	
T183124-42 S-15-EE10 [Soil] Sampled 10/11/18 15:50 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 15:50	
T183124-43 S-19 1/2-EE10 [Soil] Sampled 10/11/18 16:00 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/25/18 16:00	
8260	10/17/18 15:00	3	10/25/18 16:00	
T183124-44 S-5-EE11 [Soil] Sampled 10/12/18 07:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 07:30	
T183124-45 S-16 1/2-EE11 [Soil] Sampled 10/12/18 07:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 07:45	
T183124-46 S-26 1/2-EE11 [Soil] Sampled 10/12/18 08:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 08:20	
8260	10/17/18 15:00	3	10/26/18 08:20	
T183124-47 S-30-EE11 [Soil] Sampled 10/12/18 08:30 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 08:30	
T183124-48 S-51 1/2-EE11 [Soil] Sampled 10/12/18 08:50 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 08:50	
8260	10/17/18 15:00	3	10/26/18 08:50	
T183124-49 S-5-EE12 [Soil] Sampled 10/12/18 09:15 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 09:15	

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WORK ORDER

T183124

Client: Essel Environmental Engineering & Consulting
Project: 418 - 430 Firmin
Project Manager: Kris Kubota
Project Number: 18026

Analysis	Due	TAT	Expires	Comments
T183124-50 S-10-EE12 [Soil] Sampled 10/12/18 09:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 09:20	
T183124-51 S-15-EE12 [Soil] Sampled 10/12/18 09:25 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 09:25	
T183124-52 S-30-EE12 [Soil] Sampled 10/12/18 09:45 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 09:45	
T183124-53 S-40-EE12 [Soil] Sampled 10/12/18 10:05 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 10:05	
T183124-54 S-51 1/2-EE12 [Soil] Sampled 10/12/18 10:20 (GMT-08:00) Pacific Time (US &				
8015 TPH-CC SGT	10/17/18 15:00	3	10/26/18 10:20	
8260	10/17/18 15:00	3	10/26/18 10:20	

Reviewed By

Date

APPENDIX E

SOIL-VAPOR-SAMPLING FIELD SHEETS

SOIL VAPOR SAMPLING DATA SHEET

Sheet 1 of 1

Purge Flow: 150 L/min

Purge Volume Required before Sampling 1.5 L

Purge Volume Removed 1.5 L

A. GENERAL INFORMATION

SITE: ~~Firim~~ firmin St.

SAMPLING DATE: 10/11/18

WELL ID: EESV-2

SHIPPING DATE:

SAMPLER: JM

B. SAMPLE PURGE INFORMATION

Collect Sample with Summa Canister. Ensure the pressure in the canisters is over -26 in.Hg when starting. Stop sample collection with -5 in. HG in Summa Canisiter.

Notes: start pump canister @ -29 Hg end pump canister @ -22 Hg

start time purge: 0807 end purge time: 0816

3 purge vols

REGULAR SAMPLE

SAMPLE ID: EESV-2

VACUUM TEST (PASS/FAIL,VACUUM): pass

VOC's (PID): 2-1 ppm

CANISTER SERIAL NO.: SSAT-0509 FLOW RATE (L/min): 150 ml/min

SAMPLE TIME: START: 0816 END: 0833

CANISTER PRESSURE: INITIAL: -29 Hg FINAL: -5 Hg

Helium Concentration Maintained: N/A

LABORATORY: Sunstar

DUPLICATE SAMPLE

SAMPLE ID:

VACUUM TEST (PASS/FAIL, VACUUM):

VOC's from PID:

CANISTER SERIAL NO.: FLOW RATE (L/min):

SAMPLE TIME: START: END:

CANISTER PRESSURE: INITIAL: FINAL:

Helium Concentration Maintained:

LABORATORY:

SAMPLER SIGNATURE

SOIL VAPOR SAMPLING DATA SHEET

Sheet 1 of 1

Purge Flow: 150 L/min

Purge Volume Required before Sampling 1.5 L

Purge Volume Removed 1.5 L

A. GENERAL INFORMATION

SITE: Firmin St

SAMPLING DATE: 10/11/18

WELL ID: EESV-3

SHIPPING DATE:

SAMPLER: SM

B. SAMPLE PURGE INFORMATION

Collect Sample with Summa Canister. Ensure the pressure in the canisters is over -26 in.Hg when starting. Stop sample collection with -5 in. HG in Summa Canisiter.

Notes: start pump canister @ -22 Hg, end pump canister @ -16 Hg

purge start time: 0903 end purge time: 0913

3 purge vols.

REGULAR SAMPLE

SAMPLE ID: EESV-3

VACUUM TEST (PASS/FAIL,VACUUM): PASS

VOC's (PID): 0.4 ppm

CANISTER SERIAL NO.: SSAT-0100 FLOW RATE (L/min): 150 mL/min

SAMPLE TIME: START: 0914 END: 0923

CANISTER PRESSURE: INITIAL: -30 Hg FINAL: -5 Hg

Helium Concentration Maintained : N/A

LABORATORY: Sunstar

DUPLICATE SAMPLE

SAMPLE ID:

VACUUM TEST (PASS/FAIL, VACUUM):

VOC's from PID :

CANISTER SERIAL NO.: FLOW RATE (L/min):

SAMPLE TIME: START: END:

CANISTER PRESSURE: INITIAL: FINAL:

Helium Concentration Maintained :

LABORATORY:

SAMPLER SIGNATURE

SOIL VAPOR SAMPLING DATA SHEET

Sheet 1 of 1

Purge Flow: 150 L/min

Purge Volume Required before Sampling 1.5 L

Purge Volume Removed 1.5 L

A. GENERAL INFORMATION

SITE: Firmin St

SAMPLING DATE: 10/11/18

WELL ID: EESV-4

SHIPPING DATE: _____

SAMPLER: JM

B. SAMPLE PURGE INFORMATION

Collect Sample with Summa Canister. Ensure the pressure in the canisters is over -26 in.Hg when starting. Stop sample collection with -5 in. HG in Summa Canisiter.

Notes: start pump canister -16 Hg, end pump canister -7 Hg

start purge time: 0946 end purge time 0956 3 purge vols

REGULAR SAMPLE	DUPLICATE SAMPLE
SAMPLE ID: EESV-4	SAMPLE ID: _____
VACUUM TEST (PASS/FAIL,VACUUM): pass	VACUUM TEST (PASS/FAIL, VACUUM): _____
VOC's (PID): 8.6 ppm	VOC's from PID: _____
CANISTER SERIAL NO.: SSAT-0157 FLOW RATE (L/min): 150 mL/min	CANISTER SERIAL NO.: _____ FLOW RATE (L/min): _____
SAMPLE TIME: START: 0958 END: 1007	SAMPLE TIME: START: _____ END: _____
CANISTER PRESSURE: INITIAL: -30 Hg FINAL: -5 Hg	CANISTER PRESSURE: INITIAL: _____ FINAL: _____
Helium Concentration Maintained: N/A	Helium Concentration Maintained: _____
LABORATORY: Sunstar	LABORATORY: _____

SAMPLER SIGNATURE

AIR LABORATORY

Chain of Custody Record

SunStar Laboratories
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Essel Env. Engineering & Consulting
Address: 1035 22nd Ave., Oakland, CA
Phone: 510-366-8054 Fax:
Project Manager: Rodger Witham

Date: 4/11/18 Page: 1 Of 1
Project Name: 418-430 Firmin Street
Collector: Blaine Tech Services Client Project #: 18026
Batch #: EDF #:

Laboratory ID #	Sample ID	Date Sampled	Start Time	Finish Time	Sample Type : Soil Gas / Indoor Air	Container Type: Summa Can / Tedlar	"Hg Initial Pressure	"Hg Final Pressure	TO-3 TPHgas	TO-14	TO-15	8015m Methane	8015m Gasoline	Fixed Gases by TCD	1,1-difluoroethane	Summa Can # / Comments
	EESV-2	10/11/18	8:16	8:24	SG	Summa	-29	-5	X		X	X			X	SSAT-0509
	EESV-3	10/11/18	9:14	9:23	SG	Summa	-30	-5	X		X	X			X	SSAT-0100
	EESV-4	10/11/18	9:58	10:07	SG	Summa	-30	-5	X		X	X			X	SSAT-0157

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	10/11/18		
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Turn around time: Normal

Notes

* TO-15 SIM analysis available upon prior notification. **(Precertified Summa cans needed)**

COCAL 181857

APPENDIX F

CHAIN-OF-CUSTODY FORM
AND
LABORATORY ANALYTICAL REPORT
FOR
SOIL-VAPOR SAMPLES

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
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949.297.5027 Fax

23 October 2018

Rodger Witham
Essel Environmental Engineering & Consulting
1035 22nd Avenue
Oakland, CA 94606

RE: 418 - 430 Firmin

Enclosed are the results of analyses for samples received by the laboratory on 10/15/18 14:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kris Kubota
Project Manager Assistant

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EESV-2	T183142-01	Air	10/11/18 08:16	10/15/18 14:20
EESV-3	T183142-02	Air	10/11/18 09:14	10/15/18 14:20
EESV-4	T183142-03	Air	10/11/18 09:58	10/15/18 14:20

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

DETECTIONS SUMMARY

Sample ID: EESV-2 **Laboratory ID:** T183142-01

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Difluoroethane (Freon 152)	**1500**	27	ug/m³ Air	TO-15	
Acetone	**170**	12	ug/m³ Air	TO-15	
Isopropyl alcohol	**77**	13	ug/m³ Air	TO-15	
Chloroform	**100**	5.0	ug/m³ Air	TO-15	
Vinyl acetate	**890**	3.6	ug/m³ Air	TO-15	
Benzene	**3.5**	3.3	ug/m³ Air	TO-15	
m,p-Xylene	**16**	8.8	ug/m³ Air	TO-15	
Methane	**1600**	8.4	ppm(v)	8015M	

Sample ID: EESV-3 **Laboratory ID:** T183142-02

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Difluoroethane (Freon 152)	**6500**	27	ug/m³ Air	TO-15	
Acetone	**43**	12	ug/m³ Air	TO-15	
Isopropyl alcohol	**48**	13	ug/m³ Air	TO-15	
Heptane	**2.8**	4.2	ug/m³ Air	TO-15	J
m,p-Xylene	**4.7**	8.8	ug/m³ Air	TO-15	J

Sample ID: EESV-4 **Laboratory ID:** T183142-03

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Difluoroethane (Freon 152)	**1300**	140	ug/m³ Air	TO-15	TO-14
Methane	**490000**	86	ppm(v)	8015M	
C6-C12 (GRO)	**6750000**	7170	ug/m³ Air	TO-3/TO-14 m	



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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05



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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

EESV-2

T183142-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.										
TO-15										
1,1-Difluoroethane (Freon 152)	**1500**	3.3	27	ug/m³ Air	1.67	8101540	10/15/18	10/17/18	TO-15	
Acetone	**170**	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	**77**	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	**100**	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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949.297.5020 Phone
949.297.5027 Fax

Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

EESV-2

T183142-01(Air)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15										
Methylene chloride	ND	0.079	3.5	ug/m³ Air	1.67	8101540	10/15/18	10/17/18	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	**890**	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	**3.5**	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	**16**	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*89.2 %*	*40-160*		"	"	"	"	
Methane by GC										
Methane	**1600**	0.69	8.4	ppm(v)	1.67	8102213	10/22/18	10/22/18	8015M	



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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

EESV-2

T183142-01(Air)

SunStar Laboratories, Inc.

Total Volatile Organic Compounds by TO-3 (modified)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	1140	7170	ug/m³ Air	1.67	8101812	10/18/18	10/18/18	TO-3/TO-14 m	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

EESV-3

T183142-02(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Difluoroethane (Freon 152)	**6500**	3.3	27	ug/m³ Air	1.58	8101540	10/15/18	10/17/18	TO-15	
Acetone	**43**	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	**48**	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	**2.8**	0.15	4.2	"	"	"	"	"	"	J
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

EESV-3

T183142-02(Air)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15										
Methylene chloride	ND	0.079	3.5	ug/m³ Air	1.58	8101540	10/15/18	10/17/18	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	**4.7**	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			*83.1 %*	*40-160*		"	"	"	"	
Methane by GC										
Methane	ND	0.65	7.9	ppm(v)	1.58	8102213	10/22/18	10/22/18	8015M	



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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

EESV-3

T183142-02(Air)

SunStar Laboratories, Inc.

Total Volatile Organic Compounds by TO-3 (modified)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	ND	1140	7170	ug/m³ Air	1.58	8101812	10/18/18	10/18/18	TO-3/TO-14 m	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

EESV-4

T183142-03(Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Difluoroethane (Freon 152)	**1300**	91	140	ug/m³ Air	1.62	8101540	10/15/18	10/15/18	TO-15	TO-14
Acetone	ND	0.49	120	"	"	"	"	"	"	TO-14
1,3-Butadiene	ND	0.29	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	0.22	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	0.55	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	0.16	340	"	"	"	"	"	"	TO-14
Bromoform	ND	0.23	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	0.55	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	0.055	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	0.098	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	0.35	130	"	"	"	"	"	"	TO-14
Chloroform	ND	0.15	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	0.46	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	0.16	170	"	"	"	"	"	"	TO-14
Heptane	ND	0.15	210	"	"	"	"	"	"	TO-14
Hexane	ND	0.43	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	0.26	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	0.18	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	0.36	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	0.43	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	0.44	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	0.18	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	0.23	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	0.16	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	0.28	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	0.25	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	0.22	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	0.13	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	0.21	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	0.25	250	"	"	"	"	"	"	TO-14

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

EESV-4

T183142-03(Air)

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15										
Methylene chloride	ND	0.079	180	ug/m³ Air	1.62	8101540	10/15/18	10/15/18	TO-15	TO-14
Styrene	ND	0.19	220	"	"	"	"	"	"	TO-14
1,1,2,2-Tetrachloroethane	ND	0.54	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	0.25	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	0.21	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	0.19	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	0.24	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	0.21	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	0.24	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	0.49	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	0.33	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	0.18	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	0.052	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	0.97	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	0.45	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	0.14	210	"	"	"	"	"	"	TO-14
Benzene	ND	0.14	160	"	"	"	"	"	"	TO-14
Toluene	ND	0.14	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	0.14	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	0.20	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	0.085	220	"	"	"	"	"	"	TO-14
Methane by GC										
Methane	**490000**	7.1	86	ppm(v)	17.1	8102213	10/22/18	10/22/18	8015M	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

EESV-4

T183142-03(Air)

SunStar Laboratories, Inc.

Total Volatile Organic Compounds by TO-3 (modified)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	**6750000**	1140	7170	ug/m³ Air	1.62	8101812	10/18/18	10/18/18	TO-3/TO-14 m	

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101540 - Canister Analysis											
Blank (8101540-BLK1)				Prepared: 10/15/18 Analyzed: 10/17/18							
Surrogate: 4-Bromofluorobenzene	*288*			*ug/m³ Air*	*362*		*79.6*	*40-160*			
Acetone	ND	0.49	12	"							
1,3-Butadiene	ND	0.29	4.5	"							
Carbon Disulfide	ND	0.22	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.55	13	"							
Bromodichloromethane	ND	0.16	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.55	4.0	"							
Carbon tetrachloride	ND	0.055	6.4	"							
Chlorobenzene	ND	0.098	4.7	"							
Chloroethane	ND	0.35	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.46	11	"							
Cyclohexane	ND	0.16	3.5	"							
Heptane	ND	0.15	4.2	"							
Hexane	ND	0.43	3.6	"							
Dibromochloromethane	ND	0.26	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.36	6.1	"							
1,3-Dichlorobenzene	ND	0.43	6.1	"							
1,4-Dichlorobenzene	ND	0.44	6.1	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.23	4.1	"							
1,2-Dichloroethane	ND	0.16	4.1	"							
1,1-Dichloroethene	ND	0.28	4.0	"							

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TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101540 - Canister Analysis											
Blank (8101540-BLK1)					Prepared: 10/15/18 Analyzed: 10/17/18						
cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air							
trans-1,2-Dichloroethene	ND	0.22	4.0	"							
1,2-Dichloropropane	ND	0.13	4.7	"							
cis-1,3-Dichloropropene	ND	0.21	4.6	"							
trans-1,3-Dichloropropene	ND	0.21	4.6	"							
4-Ethyltoluene	ND	0.25	5.0	"							
Methylene chloride	ND	0.079	3.5	"							
Styrene	ND	0.19	4.3	"							
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"							
Tetrahydrofuran	ND	0.25	3.0	"							
Tetrachloroethene	ND	0.21	6.9	"							
1,1,2-Trichloroethane	ND	0.19	5.6	"							
1,1,1-Trichloroethane	ND	0.24	5.6	"							
Trichloroethene	ND	0.21	5.5	"							
Trichlorofluoromethane	ND	0.24	5.7	"							
1,3,5-Trimethylbenzene	ND	0.49	5.0	"							
1,2,4-Trimethylbenzene	ND	0.33	5.0	"							
Vinyl acetate	ND	0.18	3.6	"							
Vinyl chloride	ND	0.052	2.6	"							
1,4-Dioxane	ND	0.97	18	"							
2-Butanone (MEK)	ND	0.45	15	"							
Methyl isobutyl ketone	ND	0.14	42	"							
Benzene	ND	0.14	3.3	"							
Toluene	ND	0.14	3.8	"							
Ethylbenzene	ND	0.14	4.4	"							
m,p-Xylene	ND	0.20	8.8	"							
o-Xylene	ND	0.085	4.4	"							

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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101540 - Canister Analysis											
Duplicate (8101540-DUP1)		**Source: T183122-41**		Prepared: 10/15/18 Analyzed: 10/17/18							
Surrogate: 4-Bromofluorobenzene	*299*			*ug/m³ Air*	*362*		*82.6*	*40-160*			
Acetone	ND	0.49	12	"		ND				30	
1,3-Butadiene	ND	0.29	4.5	"		ND				30	
Carbon Disulfide	ND	0.22	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"		ND				30	
Isopropyl alcohol	ND	0.55	13	"		ND				30	
Bromodichloromethane	ND	0.16	6.8	"		ND				30	
Bromoform	ND	0.23	11	"		ND				30	
Bromomethane	ND	0.55	4.0	"		ND				30	
Carbon tetrachloride	ND	0.055	6.4	"		ND				30	
Chlorobenzene	ND	0.098	4.7	"		ND				30	
Chloroethane	ND	0.35	2.7	"		ND				30	
Chloroform	ND	0.15	5.0	"		ND				30	
Chloromethane	ND	0.46	11	"		ND				30	
Cyclohexane	ND	0.16	3.5	"		ND				30	
Heptane	ND	0.15	4.2	"		ND				30	
Hexane	ND	0.43	3.6	"		ND				30	
Dibromochloromethane	ND	0.26	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	0.36	6.1	"		ND				30	
1,3-Dichlorobenzene	ND	0.43	6.1	"		ND				30	
1,4-Dichlorobenzene	ND	0.44	6.1	"		ND				30	
Dichlorodifluoromethane	ND	0.18	5.0	"		ND				30	
1,1-Dichloroethane	ND	0.23	4.1	"		ND				30	
1,2-Dichloroethane	ND	0.16	4.1	"		ND				30	
1,1-Dichloroethene	ND	0.28	4.0	"		ND				30	



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1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101540 - Canister Analysis											
Duplicate (8101540-DUP1)		**Source: T183122-41**		Prepared: 10/15/18 Analyzed: 10/17/18							
cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air		ND				30	
trans-1,2-Dichloroethene	ND	0.22	4.0	"		ND				30	
1,2-Dichloropropane	ND	0.13	4.7	"		ND				30	
cis-1,3-Dichloropropene	ND	0.21	4.6	"		ND				30	
trans-1,3-Dichloropropene	ND	0.21	4.6	"		ND				30	
4-Ethyltoluene	ND	0.25	5.0	"		ND				30	
Methylene chloride	ND	0.079	3.5	"		ND				30	
Styrene	ND	0.19	4.3	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"		ND				30	
Tetrahydrofuran	ND	0.25	3.0	"		ND				30	
Tetrachloroethene	7.13	0.21	6.9	"		7.24			1.57	30	
1,1,2-Trichloroethane	ND	0.19	5.6	"		ND				30	
1,1,1-Trichloroethane	ND	0.24	5.6	"		ND				30	
Trichloroethene	7.62	0.21	5.5	"		7.98			4.60	30	
Trichlorofluoromethane	ND	0.24	5.7	"		ND				30	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"		ND				30	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"		ND				30	
Vinyl acetate	ND	0.18	3.6	"		ND				30	
Vinyl chloride	ND	0.052	2.6	"		ND				30	
1,4-Dioxane	ND	0.97	18	"		ND				30	
2-Butanone (MEK)	ND	0.45	15	"		ND				30	
Methyl isobutyl ketone	ND	0.14	42	"		ND				30	
Benzene	ND	0.14	3.3	"		ND				30	
Toluene	ND	0.14	3.8	"		ND				30	
Ethylbenzene	ND	0.14	4.4	"		ND				30	
m,p-Xylene	ND	0.20	8.8	"		ND				30	
o-Xylene	ND	0.085	4.4	"		ND				30	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

Methane by GC - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8102213 - EPA 5030 GC											
Blank (8102213-BLK1)					Prepared & Analyzed: 10/22/18						
Methane	ND	0.41	5.0	ppm(v)							
LCS (8102213-BS1)					Prepared & Analyzed: 10/22/18						
Methane	891	0.41	5.0	ppm(v)	985		90.4	75-125			
Duplicate (8102213-DUP1)		**Source: T183142-01**			Prepared & Analyzed: 10/22/18						
Methane	1550	0.69	8.4	ppm(v)		1550			0.258	20	

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Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

Total Volatile Organic Compounds by TO-3 (modified) - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8101812 - Canister Analysis											
Blank (8101812-BLK1)					Prepared & Analyzed: 10/18/18						
C6-C12 (GRO)	ND	1140	7170	ug/m³ Air							
LCS (8101812-BS1)					Prepared & Analyzed: 10/18/18						
C6-C12 (GRO)	19000	1140	7170	ug/m³ Air	18000		105	70-130			
Duplicate (8101812-DUP1)		**Source: T183162-17**			Prepared & Analyzed: 10/18/18						
C6-C12 (GRO)	ND	1140	7170	ug/m³ Air		ND				30	



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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Essel Environmental Engineering & Consulting	Project: 418 - 430 Firmin	
1035 22nd Avenue	Project Number: 18026	**Reported:**
Oakland CA, 94606	Project Manager: Rodger Witham	10/23/18 11:05

Notes and Definitions

TO-14	TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
J	Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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AIR LABORATORY

Chain of Custody Record

SunStar Laboratories
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Essel Env. Engineering & Consulting
Address: 1035 22nd Ave., Oakland, CA
Phone: 510-366-8054 Fax:
Project Manager: Rodger Witham

Date: 4/11/18 Page: 1 Of 1
Project Name: 418-430 Firmin Street
Collector: Blaine Tech Services Client Project #: 18026
Batch #: 183142 EDF #:

Laboratory ID #	Sample ID	Date Sampled	Start Time	Finish Time	Sample Type : Soil Gas / Indoor Air	Container Type: Summa Can / Tedlar	"Hg Initial Pressure	"Hg Final Pressure	TO-3 TPHgas	TO-14	TO-15	8015m Methane	8015m Gasoline	Fixed Gases by TCD	1,1-difluoroethane	Summa Can # / Comments
01	EESV-2	10/11/18	8:16	8:24	SG	Summa	-29	-5	X		X	X			X	SSAT-0509
02	EESV-3	10/11/18	9:14	9:23	SG	Summa	-30	-5	X		X	X			X	SSAT-0100
03	EESV-4	10/11/18	9:58	10:07	SG	Summa	-30	-5	X		X	X			X	SSAT-0157

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	10/11/18 1600	Nicole	10/11/18 1600
Nicole	10/15/18 1236		10-15-18 1236
	10-15-18 1420		10-15-18 14:20

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Turn around time: Normal

Notes

* TO-15 SIM analysis available upon prior notification. **(Precertified Summa cans needed)**

COCAL 181857

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SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T183142

Client Name: ESSEX ENV. Project: 418-430 FIRMIN STREET

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: DAN Date/Time Courier Received: 10.15.18 / 12:36

Lab Received by: SUNNY Date/Time Lab Received: 10.15.18 / 14:20

Total number of coolers received: 0

Temperature: Cooler #1	–	°C +/- the CF (1.2°C)	=	– °C corrected temperature
Temperature: Cooler #2		°C +/- the CF (1.2°C)	=	°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (1.2°C)	=	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?		☐ **Yes** ☐ **No**
If NO: Samples received on ice?		☐ Yes		☐ **No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?		☐ Yes → Acceptable		☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: BZ 10.15.18

Comments:

SunStar Laboratories

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

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Project Name: 3023 ALHAMBRA AVE., LA				Rebecca
Company: ESSEL ENV. / BLAINE TECH				
Name: THOMAS MILLER / ALEX STACK				
Item		**Quantity**	**Unit**	
2 oz Jars 24/CS				
4 oz Jars 24/CS				
8 oz Jars 12/CS				
40 ml unpreserved VOAs 100/box				
40 ml HCL-preserved VOAs 72/box				
250 ml Poly 24/CS				
1 Liter Poly 12/CS				
500 ml Poly 16/CS				
500 ml Amber Bottle Wide 12/CS				
1 Liter Amber Bottle 12/CS				
1 Gallon Poly 4/box				
5035 kits:(2)Sodium Bisulfate VOAs 72/box				
	(1) Methanol VOA 72/box			
	(1)Syringe 50/pack			
Lock-N-Load Handle 1/ea				
Tedlar Bags 10/pack				
Sub Slab Insert w/ washer & N/F				
Soil Gas SS 16" Drop Tubes				
Gas Extraction Fittings				
Soil Gas Filters				

	Volume of Summa	# Sent	Used	Unused	Unreturned
Batch Certified Summa Canisters	400cc				
	1L	4	CHARGE - 3	1	
	3L				
	6L				
Purge cans		6	CHARGE - 1		
Nitrogen cans					
Ind. Cerified Summa Cannisters	1L				
	3L				
	6L				

63/153 Manifolds, Var. Sampler, etc. Calibrated Correctly - Gauge Reads at 0		SL
Manifolds: Inst. Sampler, Variable Sampler		
	3-MANIFOLDS (150)	CHARGE - 2
Swagelok Fittings: Nuts/Ferrules, Ts	4-NUTS/FERRULES	CHARGE - 4
Cooler (Sm, Med, Lrg) Number & Quantity		
Other: Poly Tube, Valves,Silicon Tape, etc.		
Prepared By: SL	**Date: 10-8-18**	
Reviewed By:	**Date:**	

Comments:

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 10/15/2018

User Name: Lounethone, Sunny

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0100	1000cc: 1000cc Summa	0100	Sunstar Labs, Tustin Air Lab	Essel-Thomas	Thomas Miller
0157	1000cc: 1000cc Summa	0157	Sunstar Labs, Tustin Air Lab	Essel-Thomas	Thomas Miller
0217	1000cc: 1000cc Summa	0217	Sunstar Labs, Tustin Air Lab	Essel-Thomas	Thomas Miller
0509	1000cc: 1000cc Summa	0509	Sunstar Labs, Lake Forest Air Lab	Essel-Thomas	Thomas Miller
2032	Vapor Manifold: Vapor Manifold	2032	Sunstar Labs, Lake Forest Air Lab	Essel-Thomas	Thomas Miller
2037	Vapor Manifold: Vapor Manifold	2037	Sunstar Labs, Lake Forest Air Lab	Essel-Thomas	Thomas Miller
2070	Vapor Manifold: Vapor Manifold	2070	Sunstar Labs, SunStar Labs - South	Essel-Thomas	Thomas Miller
6000	6 L: 6 L Summa	6000	Sunstar Labs, Lake Forest Air Lab	Essel-Thomas	Thomas Miller

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T183142

Client: **Essel Environmental Engineering & Consulting** **Project Manager:** **Kris Kubota**
Project: **418 - 430 Firmin** **Project Number:** **18026**

Report To:
Essel Environmental Engineering & Consulting
Rodger Witham
1035 22nd Avenue
Oakland, CA 94606

Date Due:	10/22/18 17:00 (5 day TAT)		
Received By:	Sunny Lounethone	Date Received:	10/15/18 14:20
Logged In By:	Sunny Lounethone	Date Logged In:	10/15/18 14:50

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirı	No		

Analysis	Due	TAT	Expires	Comments
T183142-01 EESV-2 [Air] Sampled 10/11/18 08:16 (GMT-08:00) Pacific Time (US &				
8015m Methane	10/22/18 15:00	5	11/10/18 08:16	
TO-15	10/22/18 15:00	5	11/10/18 08:16	+ 1,1-DFA
TO-3	10/22/18 15:00	5	11/10/18 08:16	
T183142-02 EESV-3 [Air] Sampled 10/11/18 09:14 (GMT-08:00) Pacific Time (US &				
8015m Methane	10/22/18 15:00	5	11/10/18 09:14	
TO-15	10/22/18 15:00	5	11/10/18 09:14	+ 1,1-DFA
TO-3	10/22/18 15:00	5	11/10/18 09:14	
T183142-03 EESV-4 [Air] Sampled 10/11/18 09:58 (GMT-08:00) Pacific Time (US &				
8015m Methane	10/22/18 15:00	5	11/10/18 09:58	
TO-15	10/22/18 15:00	5	11/10/18 09:58	+ 1,1-DFA
TO-3	10/22/18 15:00	5	11/10/18 09:58	

Reviewed By Date

APPENDIX G

LIMITATIONS

LIMITATIONS

The environmental investigation described in this report has been conducted in accordance with current regulatory guidance and the standards of environmental and geological practice performed in the general project area. No warranty, expressed or implied, is made regarding the professional opinions presented in the report.

Essel Environmental Consulting's descriptions, conclusions, and recommendations in the report, with respect to environmental conditions, are based on a limited number of sampling points and chemical analyses. Field observations made during the investigation and the samples collected and submitted for testing are considered to be representative of the area evaluated. Subsurface soil and ground-water conditions; however, may vary between and beyond sampling or observation points. Additional work, including further subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation.

The interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. Chemical testing was conducted by an analytical laboratory that is certified by the state of California to perform the analyses requested for this investigation. Essel Environmental Consulting is not associated with the laboratory that performed the analyses and claims no responsibility for any inaccuracy in laboratory results.

This document is intended to be used in its entirety. No portion of the document, by itself, is designed to completely represent every aspect of the project. Essel Environmental Consulting should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report, furthermore, is intended for the exclusive use by the client. Any use of the contents of this report by parties other than the client is undertaken at those parties' sole risk.

Essel Environmental Engineering & Consulting
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Oakland, California 94606
1-800-595-7616 Phone
510-380-6610 Fax

January 21, 2019

Mr. Ted Handel
Decro Corporation
3431 Wesley Street, Suite F
Culver City, California 90232

RE: Exploratory Excavation to Locate Historic Oil Wells, 418 to 430 Firmin Street, Los Angeles, California 90026

Mr. Handel:

At your request, Essel Environmental Engineering & Consulting (Essel) performed focused exploratory excavation on two of the three properties at 418 to 430 Firmin Street in Los Angeles, California (site). The work was performed to attempt to locate historic oil wells on the two properties in support of Construction Site Well Review and Notice of Intention applications to be submitted to the California Division of Oil, Gas & Geothermal Resources (DOGGR). The DOGGR has plotted historic oil wells H. Rogalske 1-1 and 2A on the 418 and 426 Firmin Street properties, respectively. An anomaly identified during a 2017 geophysical survey led EFI Global, Inc. (EFI Global, 2017) to infer that a third well, H. Rogalske 3 might be on the 426 Firmin Street property. This well, according to DOGGR records, is located on an east-adjacent property.

Well Records and Maps

The three oil wells were drilled, produced, and abandoned before DOGGR was established in 1915; therefore, records indicating precise well locations and original constructions are not available at DOGGR. Abandonment records are available for H. Rogalske 1-1 because this well was discovered during residential construction in 1941. A Notice of Intention to Abandon Well, filed by Harris Rogalske on May 1, 1941, indicates an old abandoned well was found in the driveway (to a private garage) at 418 North Firmin Street.

A 1903 Map of Los Angeles City Oil Field, published by the California State Mining Bureau, depicts two oil wells, designated 23 and 17, that possibly were located on the site. The map shows well 23 located near Fireman (Firmin) Street and well 17 located approximately midway between Firmin and Boylston Street, which is to the southeast of Firmin Street. In an index to the map, Knight & Sons is listed as the operator of well 23 and the well status is noted as pumping. Dividend Oil Company is listed as the operator of well 17 and the well status is indicated to be abandoned derrick. No property lines are shown on the state mining bureau map; however, the depicted locations of wells 23 and 17 may correspond to DOGGR wells H. Rogalske 2A and 1-1, respectively. A DOGGR Los Angeles City field tract map, dated circa 1963, shows property lines and depicts H. Rogalske well 2A near the northwestern corner of the 426 Firmin Street property and H. Rogalske 1-1 near the eastern end of the 418 Firmin Street property. The current on-line DOGGR electronic map shows well 2A in the northwestern portion of the 426 Firmin Street property and well 1-1 at the southwestern corner of a detached garage the presently is located at the 418 Firmin Street property. Property lines are not shown on the on-line map.

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Plate 1 shows the three properties, dwellings, and detached garages on the site. The plate also shows the approximate locations of wells H. Rogalske 1-1 and 2A identified in DOGGR records to be on the site and the inferred location of well H. Rogalske 3, based on the location of a geophysical anomaly reported by EFI Global.

Geophysical Survey

In October 2018, Essel (2018) subcontracted with Spectrum Geophysics (Spectrum) to perform a geophysical (magnetic) survey of the three site parcels for the presence of possible oil wells. Spectrum used magnetometer/gradiometer equipment to survey the exterior areas of the three parcels outside the dwellings and detached garages. The results of the survey did not identify significant magnetic readings and contour patterns indicative of a vertical metal structure, such as the intact steel casing of an oil well. Spectrum reported the following interpretations.

- **418 Firmin Street** - One high-amplitude magnetic peak and a positive circular anomaly were detected beneath the driveway next to the detached garage and near the DOGGR-plotted location of well H. Rogalske 1-1. Spectrum interpreted the high-amplitude magnetic peak to be a buried metallic pipe passing horizontally through the location and indicated that the circular anomaly was not as broad as would be expected if several hundred feet of metal casing were present.
- **426 Firmin Street** - Two low-amplitude positive anomalies, indicative of small, buried metal objects, were identified in the northwestern and central portions of the property. The northwestern anomaly is in the vicinity of the DOGGR-plotted location of well H. Rogalske 2A. Neither anomaly suggested the presence of several hundred feet of buried oil well casing. Spectrum did not identify an anomaly in the southeastern portion of the parcel near EFI Global's inferred location of well H. Rogalske 3, although a chain-link fence at the property line might have interfered with magnetic readings.
- **430 Firmin Street** - A suspected broad circular high magnetic reading was detected in the backyard near the northern corner of the detached garage. Spectrum indicated one potential source for the anomaly could be the metal casing of an oil well, but aboveground structures precluded determining if the anomaly was a true magnetic monopole. The closest DOGGR-plotted oil well is located off-site to the east.

Spectrum indicated that the absence of robust magnetic circular anomalies did not preclude the potential presence of wells at the site. Aboveground and belowground ferrous-containing objects may distort or interfere with magnetic field measurements and the wells might not be detected if the metal casing is thin (e.g., stove pipe), buried too deep, or significantly corroded. Plate 1 shows the locations of the magnetic peak and inferred metallic pipe at 418 Firmin Street and the northwestern low-amplitude magnetic anomaly at 426 Firmin Street.

Exploratory Excavations

On behalf of Decro Corporation, Walton Construction contracted with Adams Construction Services (Adams) to perform exploratory excavation on the 418 and 426 Firmin Street properties. A representative of Essel directed the excavation work. Work was performed on January 3, 2019. Adams used a Caterpillar 420F backhoe (extendahoe) loader, equipped with a 3-foot-wide excavator bucket for digging and a breaker point to breakup a portion of the concrete driveway at 418 Firmin Street.

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Essel selected three areas to excavate:

1) the northwestern corner of 426 Firmin Street at the DOGGR-plotted location of well H. Rogalske 2A and the low-amplitude magnetic anomaly;
2) the southeastern corner of 426 Firmin Street in the vicinity of well H. Rogalske 3 as plotted by EFI Global; and
3) the eastern end of the concrete driveway at 418 Firmin Street at the locations of the geophysical anomaly inferred to be a horizontal pipe, an "oil pit" encountered in Essel's boring EE-3 (advanced in April 2018), and the DOGGR-plotted location of well H. Rogalske 1-1.

No excavation was performed at 430 Firmin Street because the dwelling on this property is a historic building and is to be preserved and this property was otherwise not accessible to the backhoe equipment. Plate 1 shows the locations of the three excavations, designated Excavation 1, Excavation 2, and Excavation 3.

Excavation in the three areas was planned to extend from a minimum of 6 feet below the ground surface to a maximum of 10 feet below grade. Well abandonment regulations require that a minimum length cement plug be placed inside the top of the well casing and that the well casing be cut off at a depth between 5 and 10 feet below the ground surface.

Excavation 1 – This excavation extended from near the northwestern corner of the 426 Firmin Street parcel approximately 20 feet parallel to Firmin Street and more than 20 feet to the southeast along the western property line. The depth of excavation varied from 5 to 10 feet below the ground surface. Dark brown topsoil was observed from the ground surface to 1½ feet below the ground surface and pale brown to pale yellowish orange siltstone/claystone was observed beneath the topsoil to the 10-foot maximum depth of the excavation. No evidence of petroleum contamination was observed within the excavation or in the materials excavated. No evidence of an oil well or facilities associated with an oil well was found in the excavation, including in the area of the low-amplitude magnetic anomaly. Adams backfilled and graded the excavation to the ground surface before proceeding to the next excavation. Plate 1 shows the approximate location of Excavation 1, the depths of portions of the excavation, and the location of the geophysical anomaly. Appendix A contains photographs of the excavation.

Excavation 2 – This excavation was approximately 8 feet wide and extended from the southeastern corner of the 426 Firmin Street property approximately 20 feet along the southeastern property line. Dark brown topsoil was observed from the ground surface to a depth of 3 feet below the ground surface, pale yellowish-brown soil/bedrock was observed between 3 and 8 feet below the ground surface, and bluish-gray discolored siltstone/claystone bedrock was observed from 8 feet to the 12½-foot total depth of the excavation. The bluish-gray bedrock was also noted to have a petroleum odor. No evidence of an oil well or facilities associated with an oil well was found in the excavation. Adams backfilled and graded the excavation to the ground surface before proceeding to the next excavation. Plate 1 shows the approximate location and depth range of Excavation 2 and Appendix A contains photographs of the excavation.

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Excavation 3 – This excavation encompassed a 10½- by 16-foot rectangular area at the eastern end of the driveway at 418 Firmin Street, between the residence and the garage. Adams used the breaker attachment on the backhoe to breakup and remove the concrete driveway and expose dark brown to black soil underlying the driveway. Three 2-inch-diameter iron pipes, a metal cable, a concrete pedestal block, and the top of a wooden box structure were exposed at a depth less than 1 foot below the surface. Oily soil was observed and petroleum odor was noted in the excavation.

Two of the iron pipes, noted to be corroded and filled with hardened sludge, were observed on the south side of the excavation, oriented parallel to the driveway. One pipe was observed to extend beneath the adjacent garage and the second pipe, which was damaged by the backhoe, was observed to extend beneath the driveway running toward Firmin Street. The wooden box structure was exposed in the center of the driveway. The structure was observed to consist of a top 18- by 12- by 4-inch (length, width, height) wooden box overlying a 12- by 12-inch square box constructed of 2- by 12-inch boards. An intact assembly on top of the box included a 4-inch-diameter metal cap, a reducer elbow and fitting, and a 2-inch-diameter metal pipe that extended from the box toward and beneath the concrete patio adjacent to the existing dwelling at 418 Firmin Street. Several 4- by 6-inch timbers that had been placed around the box were dislodged during excavation.

A 35- by 22- by 16-inch (length, width, height) concrete pedestal, with exposed rebar hooks was located next to the garage and two vertically-oriented pieces of rebar and a metal cable were also uncovered by the excavation. The excavation extended to a depth of 2 to 3 feet below the ground surface and was terminated because of limited maneuverability and to avoid damaging the central box/piping assembly. For safety reasons, the excavation was backfilled to the surface grade and the wooden box/piping assembly was left intact. The location of Excavation 3 is shown on Plate 1 and the facilities exposed in the excavation are presented on Plate 2. Appendix A contains photographs of the excavation and the exposed facilities.

Findings and Conclusions

Based on location information available at DOGGR and the results of geophysical surveys performed at the site, Essel excavated at two locations on the 426 Firmin Street property and at one location on the 418 Firmin Street property, with the following findings and conclusions.

- No evidence of petroleum-hydrocarbon-impacted soil or bedrock, disturbed soil or bedrock, an oil well casing, or oil-well associated facilities were exposed in 20- by 20-foot square by 5- to 10-foot deep Excavation 1. Based on the observed conditions in Excavation 1 and the results of Spectrum's October 2018 magnetic survey, DOGGR's historic oil well H. Rogalske 2A does not appear to be in this northwestern portion of the 426 Firmin Street property.
- Petroleum-hydrocarbon-impacted soil was encountered at 8 to 12½ feet below the ground surface in Excavation 2, located along the southeastern property line of 426 Firmin Street. No oil well casing or oil-well associated facilities were exposed in this excavation. Well H. Rogalske 3 is not present at the location inferred by EFI Global and appears likely to not be present on the site.

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- Three pipes and a closed wooden box structure are present beneath the southeastern end of the concrete driveway at 418 Firmin Street. The intact box structure and piping that extends toward the existing dwelling do not match DOGGR records for the abandonment of well H. Rogalske 1-1. These records indicate a cement plug was placed in the presumably open well to 6 feet below the ground surface. The box assembly; therefore, might be a facility associated with the H. Rogalske 1-1 oil well. One and possibly both of the two pipes, which were found beneath the driveway and are not connected to the wooden box structure, extend beneath the detached garage. The presence of these two pipes that might have been connected to the well or a wellhead facility suggests well H. Rogalske 1-1 might be under the garage.

Recommendations

Essel recommends that further exposure of the box/piping assembly underlying the driveway at 418 Firmin Street and exploration for the location of well H. Rogalske 1-1 take place shortly after the dwelling and detached garage are removed from the property. This exploration should also include exposing the "oil pit" encountered in nearby boring EE-3 to assess the relationship of the "oil pit" and box/piping assembly.

As related in a recent telephone conversation between Essel and Decro Corporation, Essel recommends that Decro Corporation, through an appropriate title company, identify the mineral rights and operator status of potential historic oil wells on the three properties that comprise the site. Application should be made to DOGGR to designate Firmin Court LP as the operator of any wells on the three properties in the event a well or wells are discovered.

Essel further recommends that any portions of the two excavations at 426 Firmin Street that are below the final grade elevation of the future development be re-excavated and compacted to meet foundation bearing strength requirements.

Limitations

Essel selected locations for excavations and directed the extent of excavation based on information available at DOGGR and the results of geophysical surveys performed at the site. The DOGGR records provide only approximate locations of possible historic oil wells and may not be inclusive of all wells that were present at the site. The results of the geophysical surveys are limited because of the interfering aboveground features and possibly because of the absence of sufficiently shallow and intact metal well casings that are detectable. Furthermore, the property at 430 Firmin Street was not accessible to explore the identified magnetic anomaly. Therefore, the potential exists that another well or wells might be encountered during future grading activities.

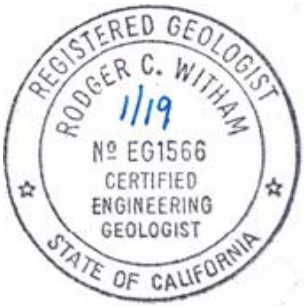
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Please call if you have any questions.

Sincerely,

ESSEL ENVIRONMENTAL ENGINEERING & CONSULTING

Rodger C. Witham, P.G., C.E.G.
Senior Geologist



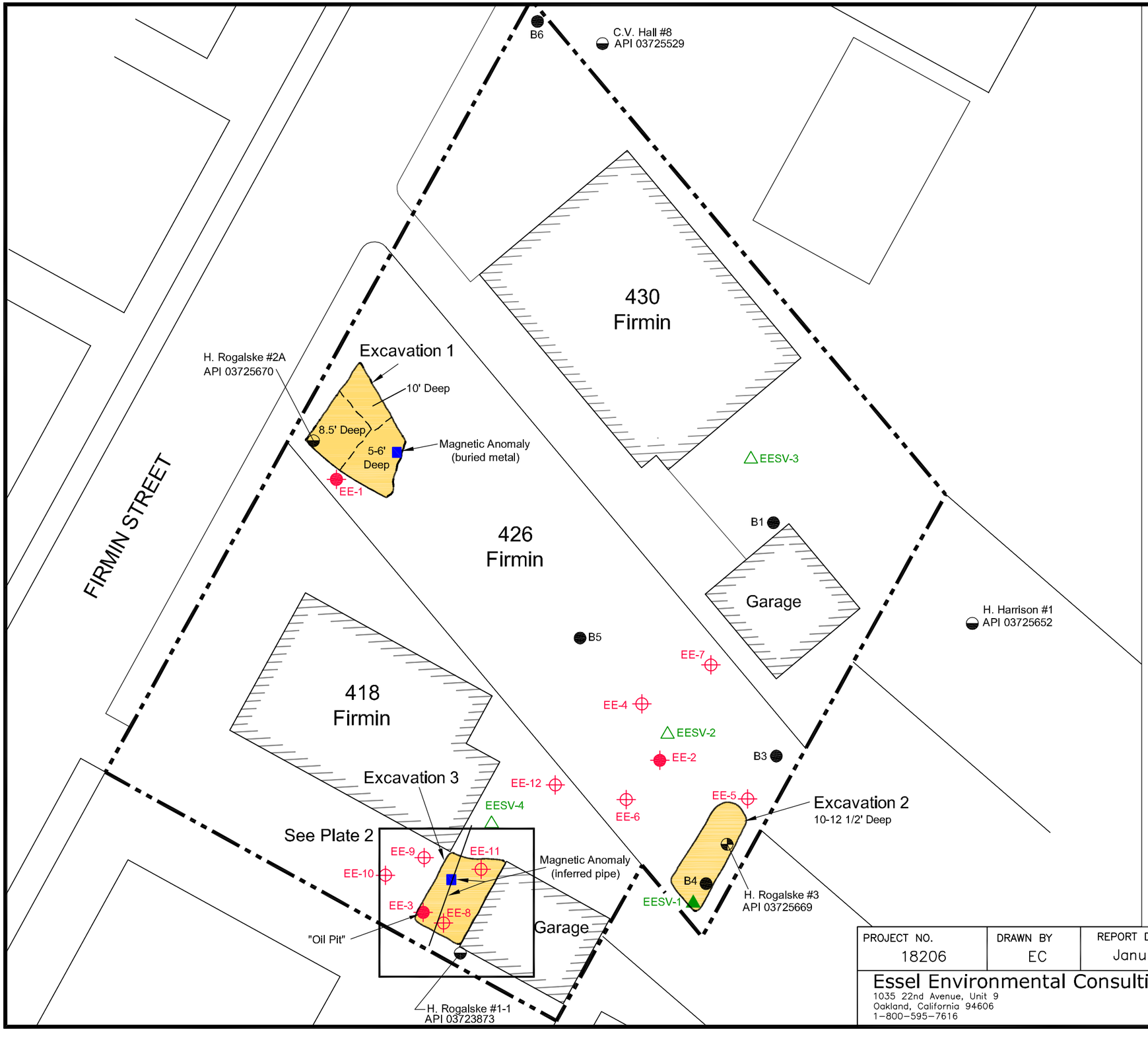
Nik Lahiri
Principal

Plate 1: Locations of Excavations
Plate 2: Oil Well Associated Facilities, Excavation 3
Appendix A: Photolog

References Cited

EFI Global, Inc., 2017, *Phase II Environmental Site Assessment report, performed at 418, 426 and 430 Firmin Street, Los Angeles, California 90026.* Project No. 9836002796, November 9.

Essel Environmental Consulting, 2018, *Report, additional subsurface environmental investigation, 418, 426, and 430 Firmin Street, Los Angeles, California*. Project No. 18026, December 14.



EXPLANATION

- APPROXIMATE PROPERTY BOUNDARY
- SITE DWELLING
- B6 — SOIL BORING LOCATION (EFI GLOBAL, 2017)
- EE-3 — SOIL BORING/VAPOR PROBE LOCATION (ESSEL, APRIL 2018)
- EE-12 — SOIL BORING LOCATION (ESSEL, OCTOBER 2018)
- EESV-1 — SOIL VAPOR PROBE LOCATION (ESSEL, APRIL 2018)
- EESV-4 — SOIL VAPOR PROBE LOCATION (ESSEL, OCTOBER 2018)
- SUSPECTED OIL WELL LOCATION WITH API NUMBER (DOGGR AND GEOPHYSICAL)
- SUSPECTED OIL WELL LOCATION WITH API NUMBER (DOGGR ONLY)
- API — AMERICAN PETROLEUM INSTITUTE
- DOGGR — DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES (STATE OF CALIFORNIA)

N

Scale: 0 20 feet 40 feet

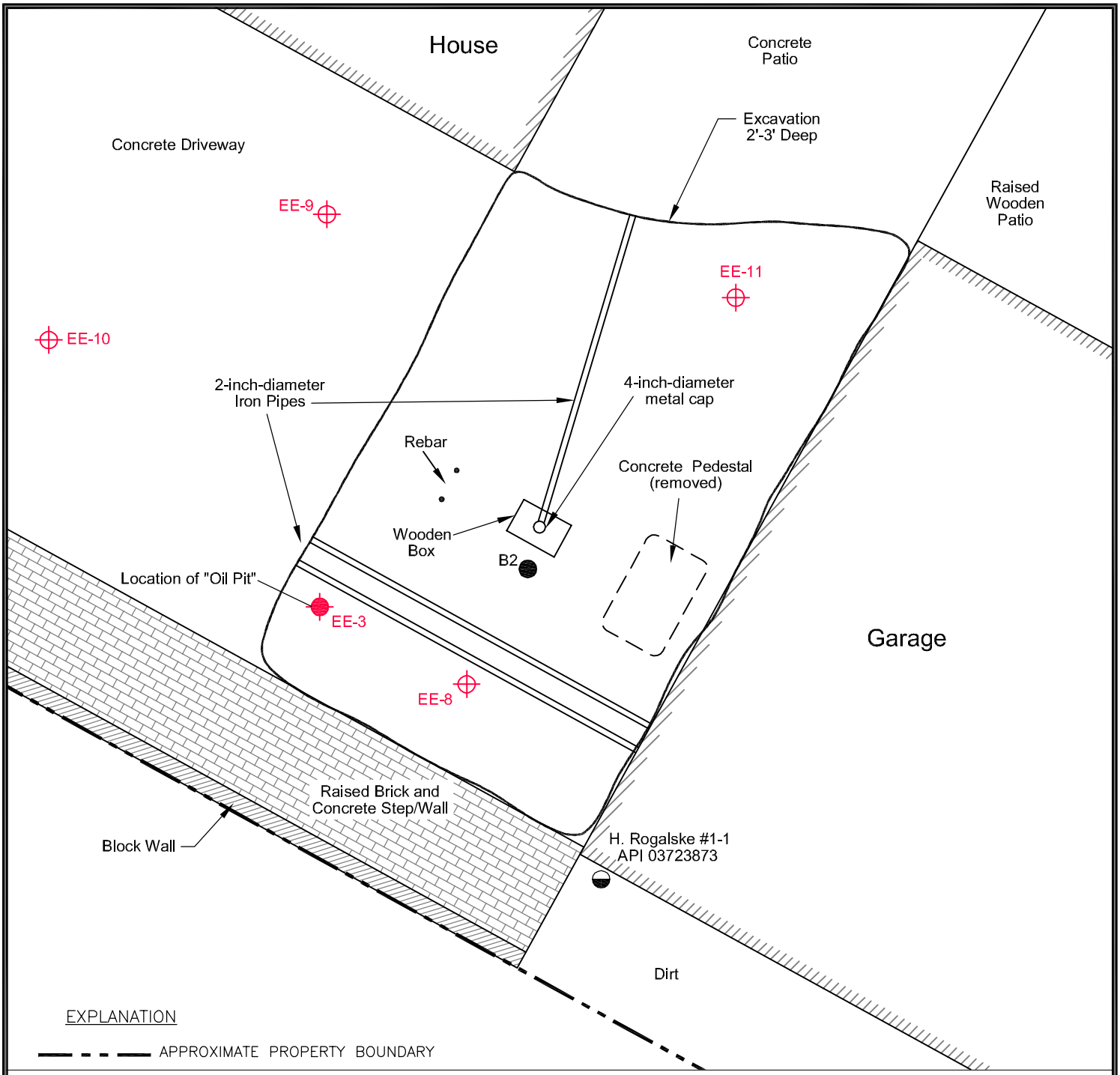
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Locations of Excavations

418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE 1



EXPLANATION

- APPROXIMATE PROPERTY BOUNDARY
- SITE DWELLING
- B2 — SOIL BORING LOCATION (EFI GLOBAL, 2017)
- EE-3 — SOIL BORING/VAPOR PROBE LOCATION (ESSEL, APRIL 2018)
- EE-12 — SOIL BORING LOCATION (ESSEL, OCTOBER 2018)
- SUSPECTED OIL WELL LOCATION WITH API NUMBER (DOGGR ONLY)
- API — AMERICAN PETROLEUM INSTITUTE
- DOGGR — DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES (STATE OF CALIFORNIA)

N

Scale: 0 4 feet 8 feet

PROJECT NO.	DRAWN BY	REPORT DATE
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Oil Well Associated Facilities
Excavation 3
418 Firmin Street
Los Angeles, California 90026

PLATE 2

APPENDIX A

PHOTOLOG



Photo 1 – Excavation 1 in northwestern corner at 426 Firmin Street – view north.



Photo 2 – Excavation 1 in northwestern corner at 426 Firmin Street – view north.



Photo 3 – Excavation 1 in northwestern corner at 426 Firmin Street – view north.



Photo 4 – View of northwestern edge of Excavation 1 along Firmin Street.



Photo 5 – View toward the south of Excavation 1; dark topsoil overlying light bedrock.



Photo 6 – Excavation to 10 feet below the ground surface along the eastern side of Excavation 1.



Photo 7 – Eastern portion of Excavation 1 at 426 Firmin Street – view south.



Photo 8 – Start of Excavation 2 at the southeastern edge of the 426 Firmin Street property – view northeast.



Photo 9 – Dark topsoil, light soil/bedrock, and blue-gray petroleum contaminated bedrock at 8 feet below grade.



Photo 10 – Blue-gray petroleum contaminated soil at 8 feet and deeper in Excavation 2.



Photo 11 – Blue-gray petroleum contaminated soil at 12½ feet below grade in Excavation 2.



Photo 12 – Excavation 2 426 Firmin Street – view northeast.



Photo 13 – Geophysical markings at 418 Firmin Street – box is magnetic anomaly; arrows indicate buried piping.



Photo 14 – Broken concrete in driveway at 418 Firmin Street, detached garage at left – view south-southwest.



Photo 15 – Exposed soil underlying concrete driveway at 418 Firmin Street – Excavation 3.



Photo 16 – Concrete pedestal during removal; formerly located at left center next to garage.



Photo 17 – Removed concrete pedestal with rebar hooks.



Photo 18 – Two 2-inch-diameter iron pipes on south side of Excavation 3 – view toward Firmin Street.



Photo 19 – View toward southeast of 2-inch-diameter iron pipe extending under the garage building.



Photo 20 – Wooden box/piping assembly in center of Excavation 3. Pipe extends toward house.



Photo 21 – Wooden box/pipe assembly and south-adjacent pipes – view southeast toward garage.



Photo 22 – Wooden box/pipe assembly and one southern pipe at upper right – view south.



Photo 23 – Wooden box/pipe assembly in Excavation 3 – view west.



Photo 24 – 4-inch-diameter metal cap, reducer elbow, and 2-inch-diameter pipe at top of wooden box – view north.



Photo 25 – Wooden box/pipe assembly. Pipe extends beneath patio of adjacent house – view east.



Photo 26 – View east of wooden box/pipe assembly and two south-adjacent pipes; garage door at top.

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October 24, 2018

Mr. Ted Handel
The Decro Corporation
3431 Wesley Street, Suite F
Culver City, California 90232

RE: Site Remediation Plan, 418, 426, and 430 Firmin Street, Los Angeles, California 90026

Mr. Handel:

INTRODUCTION

At the request of The Decro Corporation, Essel Environmental Engineering & Consulting (Essel) has prepared this preliminary site remediation plan for the property encompassing 418, 426, and 430 Firmin Street in Los Angeles, California. The elements of this plan include characterization of soil to be excavated, removed, and disposed off-site; removal and off-site disposal of oil and oily sludge from a small buried pit encountered in a boring at the southeastern corner of the site; abandonment of on-site historic oil wells that might be encountered during redevelopment activities at the site; and mitigation of potential health risks from intrusion of volatile organic contaminants and methane into a future structure at the site.

Site Location, Description, and Historical Use

The irregular-shaped site is located on the southeast side of Firmin Street, approximately 106 feet southwest of West Temple Street. The property encompasses 0.4-acre and consists of adjacent assessor's parcel numbers 5160-022-006, 5160-022-007, and 5160-022-012, which correspond to the respective addresses of 430, 426, and 418 Firmin Street. The southwestern (418 Firmin Street) and northeastern (430 Firmin Street) parcels are occupied by single-family dwellings and detached garages, which are unoccupied at the present time. The remaining portions of these two parcels consist of concrete paved driveways and walkways and landscaped areas. The central parcel (426 Firmin Street) is a vegetated vacant lot. Adjacent properties are occupied by single- and multi-family residential structures. A chain-link fence with locked access gates bounds the property along Firmin Street. The Decro Corporation has installed a video camera on the central parcel for additional security. The ground surface slopes downward from southwest to northeast with surface elevations ranging from 436 to 419 feet above mean sea level. Plate 1 shows the location of the site relative to surrounding urban and physiographic features and Plate 2 shows features at the site and adjacent properties.

Historical records reported by others (EFI Global, Inc., 2017a) indicate that the three parcels comprising the site have been used for residential purposes and reportedly also used for oil exploration and production. The parcels at 418 and 430 Firmin Street have been occupied by single-family residences continuously from sometime before 1890 to the present time. The central parcel at 426 Firmin Street was periodically occupied by residential structures from before 1890 to at least 1906 and between 1947 and 1983 and was vacant property from at least 1927 to 1947 and after 1983 to the present time. The three parcels are within the Los Angeles City oil field, which was explored and developed in the late 1800's to the early 1900's.

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Maps and records available at the California Division of Oil, Gas & Geothermal Resources (DOGGR) suggest that two historic oil wells (H. Rogalske 1-1 and 2A) are present on the 418 and 426 Firmin Street parcels. A geophysical survey (EFI Global, Inc. 2017b) identified an anomaly inferred to be a potential oil well (H. Rogalske 3) in the southeastern portion of the 426 Firmin Street parcel. Details of the oil well constructions are not available, according to DOGGR representatives, because the wells were drilled, produced, and abandoned before the state agency was formed in 1915. On-line DOGGR records were found for well H. Rogalske 1-1, which indicates the well was located beneath the driveway at 418 Firmin Street. Well H. Rogalske 1-1 was abandoned by removing 606 feet of metal casing from the well, setting cement plugs from 572 to 545 feet and 34 to 6 feet below the ground surface, and filling other portions of the well with dirt and mud. Representatives of DOGGR witnessed the well abandonment process and the agency issued a letter indicating that the well was abandoned according to agency requirements. Plate 2 shows the inferred locations of the three H. Rogalske wells, the statuses of which are listed as buried-idle. The site is identified to be within a methane zone as designated by the Los Angeles Department of Public Works.

Subsurface Environmental Investigations

Subsurface environmental investigations were preformed at the site in 2017 and 2018 with the intent of assessing the magnitude and extent of impact of the historic oil field operations.

EFI Global, Inc.

In October 2017, EFI Global, Inc. (2017b) performed a geophysical survey of the site and advanced borings B1 through B6 at locations on the site inferred to be in proximity to on-site and nearby off-site oil wells. The geophysical survey identified an anomaly at a depth of 4 feet below the ground surface near the southeastern corner of the 426 Firmin Street parcel. EFI Global, Inc. inferred this anomaly coincided with the location of the H. Rogalske 3 oil well, which was plotted on DOGGR maps on an east-adjacent property.

The six borings were advanced to depths of 15 to 25 feet below the ground surface. Field and laboratory data collected during the investigation indicated notable petroleum hydrocarbon impact to soil in borings B2, B3, and B4, advanced along the southeastern side of the site on the southern (418 Firmin Street) and central (426 Firmin Street) parcels. Elevated concentrations of diesel (maximum 11,500 milligrams per kilogram [mg/kg]) and motor oil range petroleum hydrocarbons (maximum 7,520 mg/kg) were detected in soil samples collected from the three borings at various depths between 2 and 25 feet below the ground surface. Low to moderate concentrations of diesel and motor oil petroleum hydrocarbons were detected in soil samples from borings B1 and B5 and no detectable petroleum hydrocarbons were found in a soil sample from boring B6, located in the northeastern corner of the 430 Firmin Street parcel.

Essel-March 2018

In March 2018, Essel (Essel 2018) advanced boring EE-1 at the northwestern corner of 426 Firmin Street near the inferred location of the H. Rogalske 2A oil well, advanced boring EE-2 in the east-central portion of the 426 Firmin Street parcel, and advanced boring EE-3 adjacent to EFI Global, Inc.'s boring B2 at the southeastern corner of the 418 Firmin Street parcel. The borings were advanced to depths of 24 to 28 feet below the ground surface and after collecting soil samples for laboratory analyses, nested soil vapor probes were installed in the borings. Essel also advanced a boring at the southeastern corner of the 426 Firmin Street parcel to a depth of 20 feet below grade and installed nested soil vapor probes (EESV-1) in this

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borehole. At southern boring EE-3, wood, plastic, and a void were encountered between 3 and 8 feet and oil, oily sludge, and oil-saturated soil were encountered between 8 and 15 feet below the ground surface, suggesting a buried "oil pit" was present at this location. Soil samples were collected at depths between 7 and 19½ feet below the ground surface from the three borings. Moderate to relatively high concentrations of diesel (300 to 1,300 mg/kg) and motor oil (260 to 1,900 mg/kg) petroleum hydrocarbons were detected in soil samples collected from borings EE-2 and EE-3 at depths between 10 and 20 feet below the ground surface.

Soil vapor probes were installed at depths of 7, 10, and 20 feet below the ground surface in borings EE-1 through EE-3 and EESV-1 and soil vapor samples were analyzed for gasoline petroleum hydrocarbons, volatile organic compounds, and methane. No gasoline petroleum hydrocarbons were detected in soil vapor samples at depths of 10 or 20 feet at the location of EE-1, near the inferred location of H. Rogalske well 2A; moderate concentrations (1,900 and 17,800 micrograms per cubic meter [µg/m^3]) of gasoline petroleum hydrocarbons were detected in vapor samples at depths of 10 and 20 feet at the location of EE-2 (426 Firmin Street parcel), and a relatively high concentration of gasoline petroleum hydrocarbons (116,000 µg/m^3) was detected in the soil vapor sample at the 7-foot depth at the location of boring EE-3 where the void, oil, and oily sludge were encountered. Methane was detected at trace to low concentrations (0.95 to 110 parts per million by volume [ppmv]) in the vapor samples; these concentrations were well below the California Department of Substances Control's "action level" of 5,000 ppmv.

Essel-October 2018

In October 2018, Essel performed additional subsurface investigation at the site. Work included performing a geophysical survey of the property, drilling/advancing nine soil borings on the 418 and 426 Firmin Street parcels, and installing three, shallow soil-vapor probes on the three site parcels. The geophysical survey was performed to attempt to locate potential historic oil wells. The results of the survey identified a few small anomalies on the three site parcels, suggestive of buried metal objects. Anomalies were found in the vicinity of borings B2 and EE-3 near the location of the "oil pit" and the H. Rogalske 1-1 oil well and in the southeastern portion of the 426 Firmin Street parcel in the vicinity of the H. Rogalske 3 oil well. No robust signals indicative of typical oil well conductor casing were noted during the survey; however, the data do not rule out the presence of wells, if the metal casings are thin or corroded.

Borings EE-4 through EE-8 and EE-11 and EE-12 were drilled and sampled to a total depth of 51½ feet below the ground surface and borings EE-9 and EE-10 were advanced and sampled to a depth of 20 feet below the ground surface. The borings were drilled/advanced in an attempt to delineate the lateral and vertical extent of petroleum hydrocarbon impact in soil that was identified during the two previous investigations. Preliminary review of the laboratory analytical results for soil indicates the three ranges of petroleum hydrocarbons (gasoline, diesel, and motor oil) were detected in nearly all samples and low concentrations of petroleum-related volatile organic compounds were sporadically detected in some samples. The detected petroleum hydrocarbons are predominantly in the diesel and motor oil ranges, with relatively lower concentrations detected in the shallower soil (ground surface to 15 feet) and a general trend of increasing concentrations with increasing depth. The maximum concentrations of diesel and motor oil petroleum hydrocarbons detected, respectively, were 11,000 and 18,000 mg/kg at 51½ feet below the ground surface in boring EE-12, drilled on the southern 418 Firmin Street parcel. Borings EE-8 through EE-11 were drilled/advanced in the immediate vicinity of boring EE-3 to define the area of the "oil pit" encountered in that boring. No oil, oily sludge, or oil saturated soil was noted between the ground surface and 15 feet below

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grade in borings EE-8 through EE-11, indicating the "oil pit" is locally restricted to an area within these borings.

Soil vapor probes EESV-2, EESV-3, and EESV-4 were installed to a depth of 7 feet below the ground surface on the three parcels to assess the presence of gasoline petroleum hydrocarbons, volatile organic compounds, and methane in the shallow soil vapor beneath each parcel. Gasoline petroleum hydrocarbons were not detected in soil vapor samples from probes EESV-2 or EESV-3, located on the 426 and 430 Firmin Street parcels, respectively. A very high concentration (6,750,000 µg/m^3) of gasoline petroleum hydrocarbons was detected in southern vapor probe EESV-4, located on the 418 Firmin Street parcel. A few petroleum-related and non-petroleum-related volatile organic compounds were detected at low to moderate concentrations in the three soil vapor samples. Methane was not detected in the soil vapor sample collected from northern vapor probe EESV-3 (430 Firmin Street) and was detected at a concentration (1,600 ppmv) below the state "action level" (5,000 ppmv) in central vapor probe EESV-2 (426 Firmin Street). A very high concentration (490,000 ppmv) that is greater than the "action level" and lower explosive limit (53,000 ppmv) for methane was found in southern vapor probe EE-4 (418 Firmin Street).

Planned Development

Essel understands that The Decro Corporation plans to construct a seven-story residential building, the footprint of which will occupy nearly the entire site. The structure will include a lower partly underground parking level, a second floor aboveground level that will include parking, offices, and some residential units, and upper five floors (third through seventh) that will consist of residential units. An 8- to 12-foot-wide perimeter around the building will be landscaped. Preliminary architectural plans (Dahlin Group, 2018) indicate the lower parking level may be as much as 12 feet below the ground surface in the southwestern portion of the site. GeoConcepts, Inc. (2017) indicates vertical excavations may be as much as 20 feet below grade, also likely to be near the southwestern edge of the site.

REMEDIATION PLAN

The proposed remediation plan for the site includes for elements: 1) characterization of soil to be excavated and disposed off-site; 2) excavation and removal of the oil, oily sludge, and oil saturated soil encountered in boring EE-3; 3) abandoning historic oil wells encountered at the site; and 4) incorporating methane and organic vapor mitigation measures into the design and construction of the proposed residential building.

Characterization of Soil for Off-Site Disposal

Active remediation of site will be performed through excavation and off-site disposal of material that will be removed from the site to construct the future site building. The volume of soil to be excavated and removed has not been estimated and potential disposal sites have not been identified. The contractor or other representative designated by the owner will be responsible for determining volumes and areas of soil to be excavated (based on the building design), obtaining the appropriate excavation permit and other approvals, identifying appropriate disposal facilities, and profiling and gaining acceptance by the disposal facilities.

The frequency of sampling and the laboratory analytical protocol used to characterize the excavated soil will be designed to meet the criteria of the accepting disposal facilities. Soil to be excavated and removed from the site may be pre-characterized through analysis of soil samples collected from borings or characterized

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after excavation and stockpiling at the site. Typical sampling frequencies for volumes of soil are described as follows.

- 1,000 cubic yards or less - one sample per 250 cubic yards or fraction thereof.
- 1,000 to 5,000 cubic yards - four samples for the first 1,000 cubic yards; one sample per each additional 500 cubic yards or fraction therof.
- Greater than 5,000 cubic yards - 12 samples for the first 5,000 cubic yards, one sample per each additional 1,000 cubic yards or fraction thereof.

Individual disposal facilities may have more frequent of less frequent sampling requirements depending on the volume of soil accepted and the contaminants of concern.

Pre-characterization is performed by sampling and analyzing discrete in-situ soil samples to allow for direct loading and off-haul during excavation. Disposal facilities may have limitations on the time since analyses are performed in cases where pre-characterization is conducted. Samples collected from excavated and stockpiled soil may be discrete grab samples or four-point composite samples per applicable increment volume. Samples will be collected at locations that are representative of the soil. For composite sampling, four discrete samples will be collected from each equal-size quadrant of the increment volume.

Soil samples will be collected, labeled, and sealed in appropriate containers (plastic sleeves, glass jars, or metal sleeves). Each set of four composite samples will be labeled to tie the samples to the applicable volume increment. The samples will be delivered to the analytical laboratory, using chain-of-custody procedures, for compositing and analysis. At a minimum, samples will be analyzed in the laboratory for total petroleum hydrocarbons (gasoline, diesel, and motor oil). Additional analyses for volatile and/or semi-volatile organic compounds, other organic compounds, and inorganic elements may be performed as required by the disposal facility.

Loading, transport, and disposal of soil will be performed by the contractor or a designated agent who will schedule and coordinate these activities and will track transport and disposal with appropriate bills of lading, weight tickets, or other applicable disposal documentation.

Excavation and Removal of "Oil Pit" Materials

Field observations during the October 2018 subsurface investigation indicates that the "oil pit" encountered in boring EE-3 (418 Firmin Street parcel) extends from approximately 3 to 15 feet below the ground surface and appears to be restricted in lateral extent to an area beneath the existing concrete driveway defined by borings B2 and EE-8 through EE-11 (see Plate 2). Remediation of the "oil pit" may most appropriately be undertaken after removal of the adjacent garage, dwelling, and concrete driveway and patio on this parcel.

On exposure of the oil pit, a vacuum truck may be used to remove oily liquids and semi-solid materials. Subsequent to this task, excavation would proceed laterally and vertically to remove visible sludge and oil-saturated soil. Based on proximity of the "oil pit" to the adjacent property, which is approximately 5 feet higher in elevation than the site, bracing or shoring might be necessary for the excavation. Excavated oily materials may be directly loaded into trucks for transported and disposed at an accepting facility.

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Alternatively, the excavated materials might be stockpiled on-site for later disposal. If stockpiled, the excavated materials will be placed on and covered with plastic and otherwise secured to minimize release of nuisance odors.

Excavation is anticipated to proceed until oil, sludge, and oil-saturated soil are no longer visible. Soil samples collected from the bottom and sidewalls of the excavation will be analyzed for the range of petroleum hydrocarbons to confirm the "oil pit" materials have been removed. The excavation should be backfilled and compacted with appropriate engineered fill, as determined by a geotechnical engineer.

Abandoning Historic Oil Wells

Division of Oil, Gas & Geothermal Resources records indicate that two historic oil wells are located near the southeastern corner of 418 Firmin Street and the northwestern corner of 426 Firmin Street. The DOGGR currently lists the status of these wells as buried-idle. Well H. Rogalske 1-1 was identified to be under the driveway at 418 Firmin Street and was abandoned in 1941 in a manner acceptable to DOGGR at the time. Records suggest the upper cement plug placed in the well is at an approximate depth of 6 feet below the concrete driveway surface. This well appears to be in close proximity to the "oil pit" located beneath the present-day driveway at 418 Firmin Street. No records are available for well H. Rogalske 2A with respect to well construction or location other than a DOGGR map plotting the well near the northwestern corner of 426 Firmin Street. The DOGGR map shows well H. Rogalske 3 to be on property adjacent to the east of the site; however, EFI Global, Inc. suggests that a geophysical anomaly located near the southeastern edge of 426 Firmin Street might be well H. Rogalske 3. The geophysical survey performed in October 2018 identified several small anomalies in the eastern portions of the three site parcels suggestive of buried metal objects. Neither the previous nor recent geophysical surveys identified an anomaly in the northwestern area of 426 Firmin Street near well H. Rogalske 2A.

Investigation into whether historic oil wells are present on the property would next include exploratory excavations in the anomaly and DOGGR map locations to identify the nature of the buried metal objects. On discovery of an oil well, work at the location will stop, and the location will be marked and secured pending notification of DOGGR and the City of Los Angeles Fire Department and evaluation of additional work necessary to abandon the well according to current DOGGR standards.

The owner will subcontract with a qualified contractor to properly abandon wells. As required by DOGGR, the well or wells will be cleaned out to the extent necessary or practicable, including removal of well casings, and the wells will be properly plugged, cut off below the final grade surface of the new development, and capped. Work will be performed according to applicable requirements described in Sections 1723 (Plugging and Abandonment) and 1724 (Required Well Records) of Title 14 of the California Code of Regulations and other requirements of DOGGR.

Methane Mitigation

The site is located in the Los Angeles City oil field and is also located in a methane zone identified by the City of Los Angeles, Department of Public Works. During the October 2018 subsurface investigation, methane was detected in the soil-vapor probe installed on the 426 Firmin Street parcel at a concentration less than the "action level" and was detected in the soil vapor probe installed on the 418 Firmin Street parcel at a concentration significantly higher than both the "action level" and the lower explosive limit for methane.

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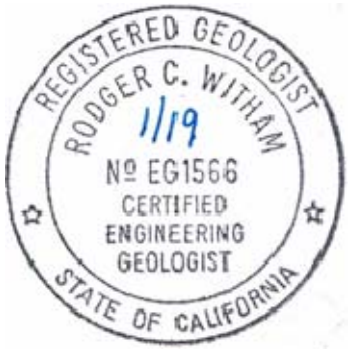
New buildings constructed in methane zones are subject to the provisions of Division 71 (methane seepage regulations), Sections 91.7101 through 91.7109 of the Los Angeles Municipal Code, which require testing the concentration and pressure of methane gas at a site, and designing and installing a methane mitigation system in new buildings.

Preliminary investigation of potential methane concentrations has been conducted at the site. Additional site wide testing on a grid pattern may be necessary to assess concentrations and pressures beneath the future building. These data can be used to select and design a proper methane mitigation system per the criteria presented in Table 71 of the methane seepage regulations. The owner will subcontract with a qualified contractor or contractors to perform the testing and the design of the methane mitigation system. Design plans and drawings will be included with construction plans submitted to the city.

Please call if you have any questions.

Sincerely,

ESSEL ENVIRONMENTAL CONSULTING



Rodger C. Witham
Senior Geologist

Nik Lahiri
Principal

Attachments: Plate 1 – Site Vicinity Map
Plate 2 – Site Plan and Boring/Vapor Probe Locations

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REFERENCES CITED

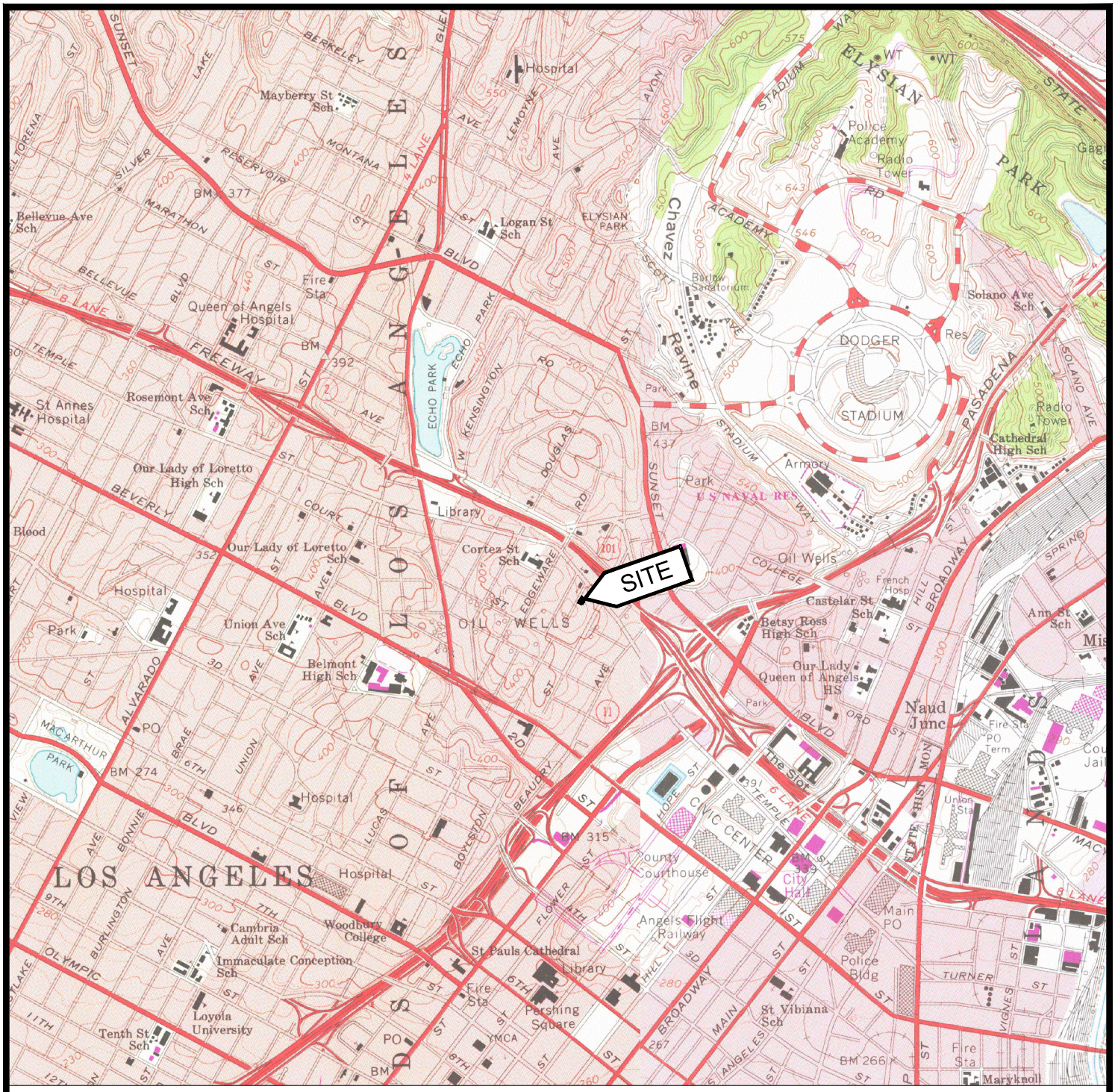
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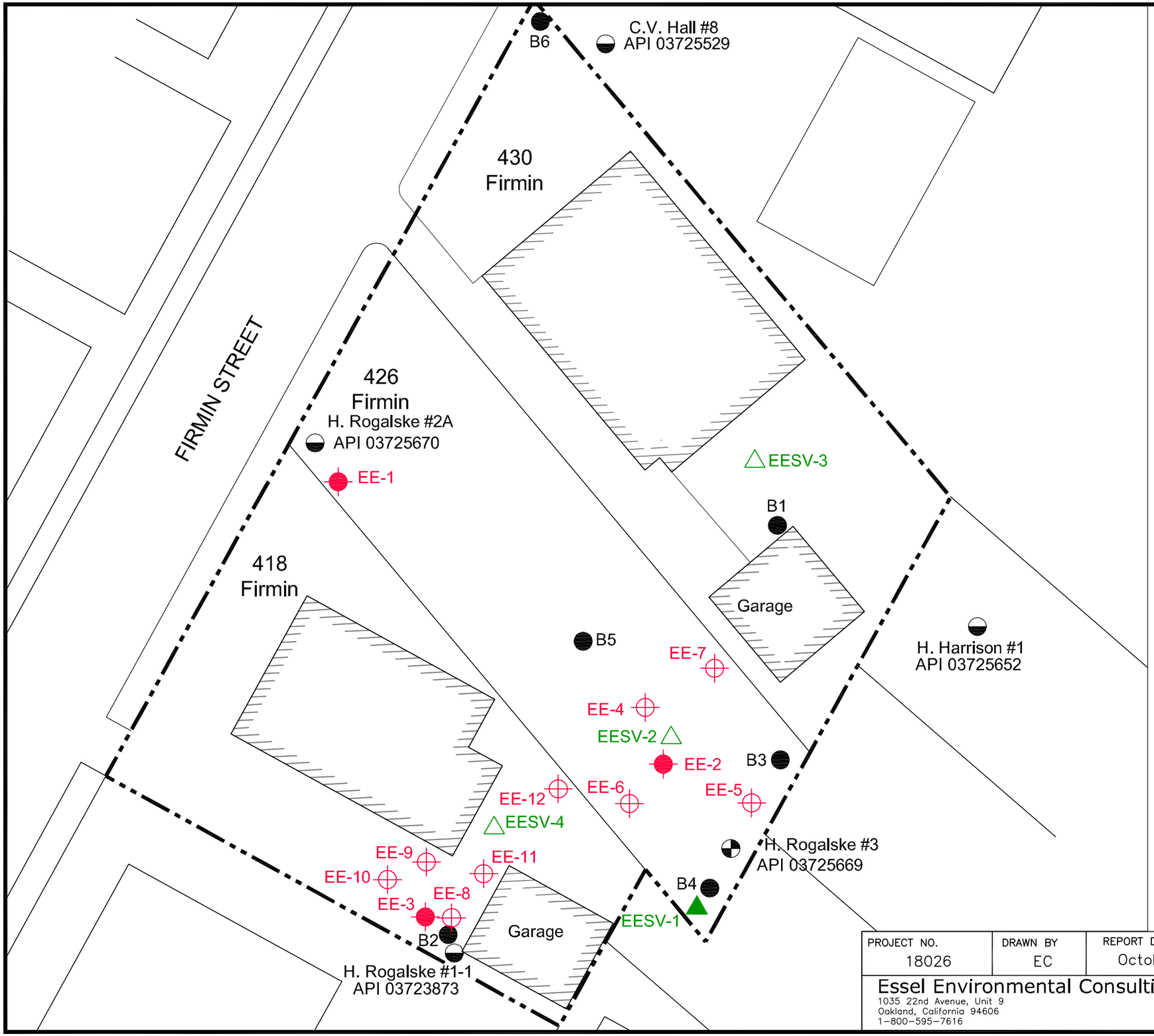
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Source: USGS 7 1/2–Minute Quadrangles
Hollywood, California, 1994
Los Angeles, California, 1994

PROJECT NO.	DRAWN BY	REPORT DATE		PLATE
18026	EC	October 2018	Site □□nit□M□□ 418, 426, and 430 Firmin Street Los Angeles, California 90026	1

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EXPLANATION

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- EESV-1 — SOIL VAPOR PROBE LOCATION (ESSEL, MARCH 2018)
- EESV-4 — SOIL VAPOR PROBE LOCATION (ESSEL, OCTOBER 2018)
- SUSPECTED OIL WELL LOCATION WITH API NUMBER (DOGGR AND GEOPHYSICAL)
- SUSPECTED OIL WELL LOCATION WITH API NUMBER (DOGGR ONLY)
- API — AMERICAN PETROLEUM INSTITUTE
- DOGGR — DIVISION OF OIL, GAS & GEOTHERMAL RECOURCES (STATE OF CALIFORNIA)

N

Scale: 0 20 feet 40 feet

PROJECT NO.	DRAWN BY	REPORT DATE
18026	EC	October 2018

Essel Environmental Consulting
1035 22nd Avenue, Unit 9
Oakland, California 94606
1-800-595-7616

Site Plan and Boring/ Vapor Probe Locations
418, 426, and 430 Firmin Street
Los Angeles, California 90026

PLATE 2

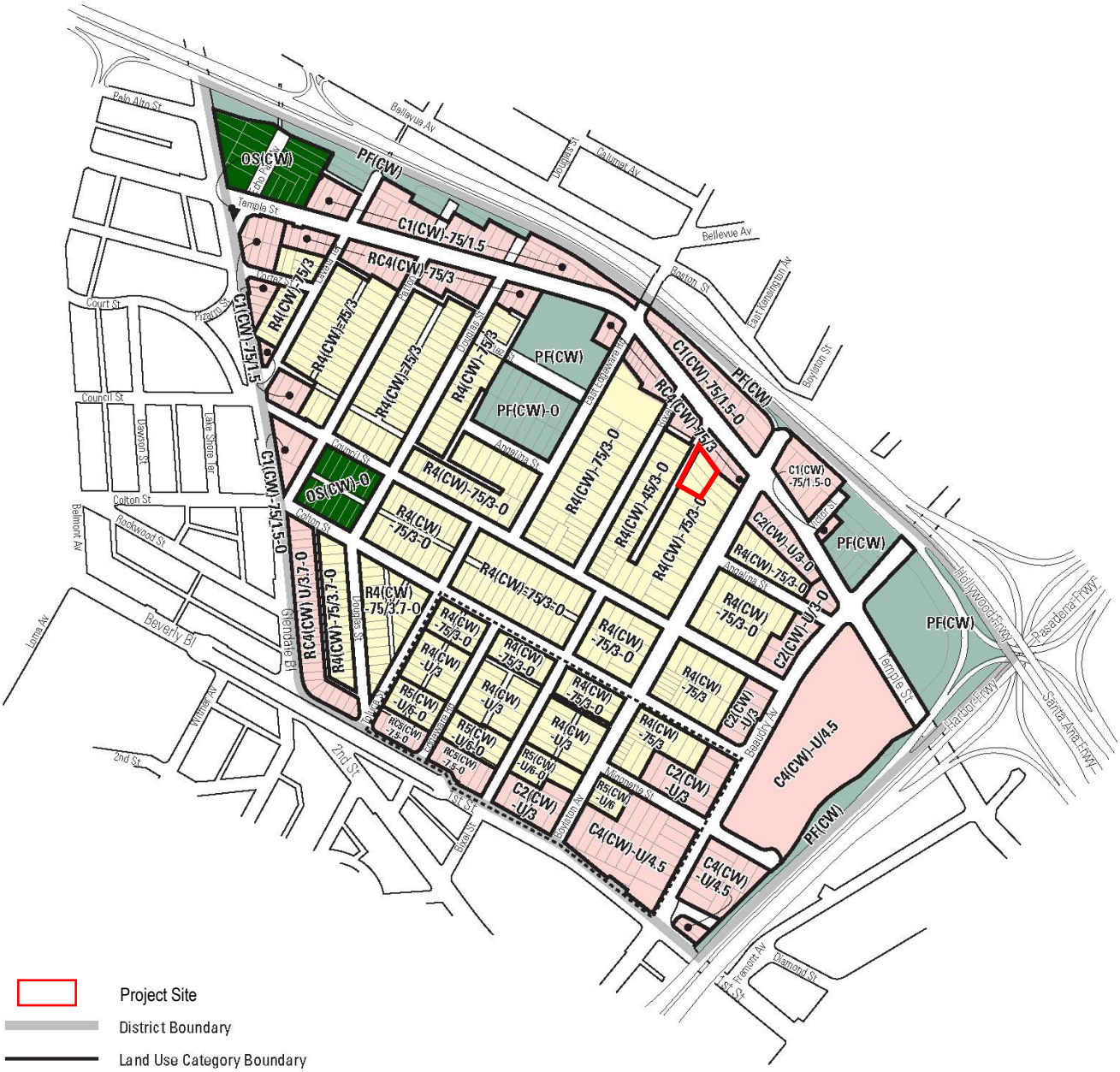
EXHIBIT H

Central City West Specific Plan

North Subarea Map

Case No. DIR-2018-3691-TOC-SPP-WDI-1A

Central City West Specific Plan



Note: The height of buildings on a lot in the U\"U" Height District shall be governed by the provisions of Section 8A

Map No. 2

North Subarea Permitted Height and Floor Area
Temple/Beaudry Neighborhood District

Not to scale

Prepared by City of Los Angeles Planning Department • Graphic Services Section • July 2000

INITIAL SUBMISSIONS

The following submissions by the public are in compliance with the Commission Rules and Operating Procedures (ROPs), Rule 4.3a. Please note that "compliance" means that the submission complies with deadline, delivery method (hard copy and/or electronic) AND the number of copies. The Commission's ROPs can be accessed at **http://planning.lacity.org**, by selecting "Commissions & Hearings" and selecting the specific Commission.

The following submissions are not integrated or addressed in the Staff Report but have been distributed to the Commission.

Material which does not comply with the submission rules is not distributed to the Commission.

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If you are using Chrome, the bookmarks are on the upper right-side of the screen. If you do not want to use the bookmarks, simply scroll through the file.

If you have any questions, please contact the Commission Office at (213) 978-1300.

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June 28, 2019

VIA E-MAIL AND HAND DELIVERY

President Samantha Millman and Honorable Commissioners
Los Angeles City Planning Commission
200 North Spring Street, Room 272
Los Angeles, California 90012-2601
c/o Cecilia Lamas, Commission Executive Assistant
(cpc@lacity.org)

Re: **Firmin Court (100% Affordable Housing Project)**
418, 426 and 430 North Firmin Street, Los Angeles, California 90026
(Case Nos. DIR-2018-3691-TOC-SPP-WDI-1A; ENV-2018-3692-SE)

Dear President Millman and Honorable Commissioners,

This office represents Firmin Court, L.P. ("Applicant"), the owner/applicant ("Applicant") for Firmin Court located at 418, 426, and 430 North Firmin Street, Los Angeles, California 90026 (the "Property"). For the reasons set forth in this letter, we respectfully request that the City Planning Commission ("Commission") deny the appeal filed on this Project and allow the Applicant to begin constructing a much-needed affordable housing project for the City.

The Applicant's General Partners are Decro Firmin, LLC ("Decro LLC"), and IHO Firmin, LLC ("IHO LLC"). Decro LLC's sole member is Decro Corporation, a California nonprofit, tax-exempt affordable housing developer that was formed in 1989 and currently has 13 developments and nearly 700 affordable housing developments in its portfolio. IHO LLC's sole member is Innovative Housing Opportunities which was founded in 1976 and has over 550 affordable homes in Orange, Los Angeles, Riverside, and San Diego Counties.

On May 16, 2019, the Director of Planning ("Director") issued a Letter of Determination ("LOD") approving the construction of 64 dwelling units on the Property consisting of 45 Permanent Supportive Housing ("PSH") units reserved for Extremely Low- Income households, 18 units reserved for Low-Income Households, and one on-site manager's unit ("Project"). The LOD approved a Transit Oriented Communities entitlement and Project Permit Compliance Review (together, the "Entitlements") and determined that the Project is exempt from the California Environmental Quality Act

("CEQA"). On May 31, 2019, Patricia Mendoza ("Appellant") filed an Appeal Application with the Department of City Planning ("Department"), including a letter setting forth the grounds for her appeal. In Application Section 4., Appellant checked the box that she was appealing the "Entire" decision set forth in the LOD.

I. *The Director Approved The Project In Accordance With California Law And The Los Angeles Municipal Code*.

Neither Appellant's application nor her letter provides the Commission with a cognizable grounds as to why the Director erred in its approval of the Entitlements or its determination that the Project is statutorily exempt under CEQA. Absent this information, the appeal must be denied.

Well-established California law requires that individuals like Appellant provide the Department with "articulated factual issues and legal theories" in support of their appeal giving due regard as to the level of specificity in that appeal since these individuals are not usually represented by counsel at the administrative level. (*Mani Brothers Real Estate Group v. City of Los Angeles* (2007) 153 Cal.App.4th 1385, 1394-1395.) Even so, California appellate courts have stressed the need for specificity in an appeal so the lead agency is given the opportunity to respond:

> "Comments must express concerns so the lead agency has 'its opportunity to act and to render litigation unnecessary.' . . . **'[R]elatively... bland and general references to environmental matters' ..., or 'isolated and unelaborated comment[s]' do not satisfy the . . . requirement.'**" (North Coast Rivers Alliance v. Marin Municipal Water Dist. Bd. Of Directors (2013), 216 Cal.App.4th 614, 623. (emphasis added.) (citations omitted.))

The Director properly approved the Project by following City requirements set forth in the Central City West Specific Plan ("Specific Plan") adopted by the City Council in 1991. The Property falls within the Specific Plan area that is designated as an area where multi-family housing developments are permitted. Therefore, contrary to the claims in the appeal, the Project may be constructed in proximity to other single-family and multi-family structures along Firmin Street and the LOD should be upheld.

In addition, the Director approved the Project consistent with the Transit Oriented Communities ("TOC") Affordable Housing Incentive Program adopted by the City in 2016. (LAMC 12.22.A.31.) Because the Project is 100 percent affordable housing units, it qualifies as a TOC Tier 3 project which permits base incentives for density, Floor Area Ratio, and parking. In addition, the Project also received additional

incentives for yards, open space, and height. (LOD, pages 1-2.) These incentives are consistent with the TOC Guidelines. Further, the LOD requires the Applicant to enter into a binding Regulatory Agreement that will restrict the affordability of rents for at least 55 years and construct the Project using labor standards as required by the TOC Guidleines. (LOD, Conditions 5 and 14.) As such, the Director properly determined that the Project meets the eligibility requirements and has conditioned the Project to ensure that all affordability and labor requirements are met.

CEQA exempts affordable housing projects from its requirements pursuant to Public Resources Code Section 21159.23. In approving the Project, the Director properly determined that the Project met each of the threshold requirements set forth in State CEQA Guidelines Sections 15192 and 15194 promulgated under this statute. (LOD, page 22.) The City's record also includes extensive Findings Supporting a Statutory Exemption Pursuant to CEQA.

Appellant's appeal fails to provide the Commission with any factual or legal information or both that explains why the Director was mistaken in finding that the Project complies with the Specific Plan and that it is not entitled to the incentives provided for under the TOC Affordable Housing Incentive Program. Therefore, we respectfully request that the Commission deny Appellant's appeal on this ground as well.

II. The Appeal Should Be Denied As The Project Will Be Built Safely And Respects The Surrounding Neighborhood

The appeal fails to raise issues related to the findings that the Director made in approving the Project and improperly mischaracterizes the Project, as explained below.

1. The Project Will Be Constructed Safely And Measures Are In Place To Reassure Appellant And Other Nearby Residents.

Without any support or evidence, the appeal contends that the Project will endanger the Appellant and her home. The Applicant has actually worked very hard to assemble a team of experts to ensure that the Project can be constructed in keeping with best safety practices.

Walton Construction, the project contractor who is well-experienced in building affordable housing projects, will implement a construction management plan to ensure proper measures are taken to safeguard workers, nearby residents, and their homes. Also, mitigation measures have been implemented to require the preparation of a Site Management Plan and steps to carefully remove and remediate the abandoned oil wells

to address health and safety measures. (LOD, Mitigation Measure MM HAZ-1 -- MM HAZ-8.) Further, the Project will be constructed during the City's mandated construction hours and the Applicant has not requested extended construction hours. (LAMC 41.40.) Finally, the Applicant's representative contacted the Appellant and discussed how the Project will be constructed in a manner that protects the homes of Appellant and her neighbors.

2. *The Applicant Has Been An Engaged And Good Neighbor And Responded To Community Input.*

The Applicant has engaged its neighbors in a genuine effort to listen to their concerns and gain a greater understanding of those concerns as well as educate them on the Project. The Applicant has also responded to neighborhood concerns about the condition of the Property by strategically placing security lighting and cameras on it, periodically removing vegetation and trash, and installing fencing to secure the Property. In addition, the Applicant has met with Appellant and Firmin Street neighbors on more than five occasions to discuss the Project.

On August 14, 2018, the Applicant met with the Echo Park Neighborhood Council Joint Planning and Land Use Committee and Board of Governors. On August 28, 2018, the Applicant gave another presentation to the Echo Park Neighborhood Council Board of Governors. On September 6, 2018, the Applicant met with a group of Firmin Street neighbors at a meeting organized by Council District 1 and the Los Angeles Police Department ("LAPD"). On January 16, 2019, the Applicant met with the Echo Park Improvement Association. On March 13, 2019, the Applicant met a second time with the Firmin Street neighbors in a meeting organized by Council District 1 and LAPD Senior Lead Officer Robert Solorio. These meetings have resulted in wide ranging support for the Project, including letters of support from the Echo Park Neighborhood Council and the Echo Park Improvement Association.

III. The Project Will Help Meet The City's Critical Need For Permanent Supportive Housing

On June 4, 2019, the Los Angeles Homeless Services Authority released statistics for 2019 finding that 36,300 homeless individuals live in the City. This was an increase of 16 percent from 2018. The Project is located within Council District 1, where the recent statics are similar. In Council District 1, 2,791 individuals are homeless, which represents an increase of 14 percent from 2018. Of these individuals, 2,595 are over 24 years old and 951 are defined as "chronically homeless." Notably, this also includes 137 families and 63 veterans.

This Project is a positive step in reversing this trend. In particular, the Project will provide a seven-story multi-family residential building with a total of 64 dwelling units consisting of 45 PSH units reserved for Extremely Low Income Households, 18 units reserved for Low Income Households, and one on-site manager's unit. The Project also allocates 2,200 square feet of supportive services space for St. Joseph Center's case managers to support the residents. Finally, the Project also includes space for community meetings as well as other space for after-school and other programs.

Given the City's critical need for housing, together with the support that the Project has received from community organizations and with your support, we respectfully request that you deny Appellant's appeal and allow the Applicant to immediately begin construction on the Project and open the doors to 64 new units of permanent supportive and affordable housing.

Sincerely yours,

Elisa L. Paster

ELISA L. PASTER
of GLASER WEIL FINK HOWARD AVCHEN & SHAPIRO LLP

CC: Gerald Gubatan, Planning Director, Council District 1
Jane Choi, Senior City Planner, Department of City Planning
Nuri Cho, City Planning Associate, Department of City Planning