Sunshine Canyon Landfill
Independent Monitor
Quarterly Site Monitoring Status Report
April 1, 2019 – June 30, 2019

Prepared For:

City of Los Angeles Department of City Planning

And

County of Los Angeles Department of Regional Planning

Prepared By:

UltraSystems
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Prepared On:

July 18, 2019

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CERTIFICATION STATEMENT

July 18, 2019

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated July 18, 2019 is the Second Quarterly Report for 2019, issued by UltraSystems. This report covers the monitoring period from April 1, 2019 through June 30, 2019 and is prepared for the City of Los Angeles Department of City Planning and the County of Los Angeles Department of Regional Planning.

I, James T. Aidukas, Project Manager for the Mitigation Monitoring Services of the Sunshine Canyon Landfill, certify that the statements in the Quarterly Report and the referenced monthly reports reflect the site conditions observed and compliance status noted by me and other qualified experts during the stated site visits.

Signed,

James T. Aidukas

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Quarterly Status Report

This Quarterly Status Report is a compilation of the period's monthly Site Monitoring. After each site visit, the UltraSystems monitors who went to the Sunshine Canyon Landfill site each wrote a Mitigation Monitoring Site Report. The Mitigation Monitoring Summary spreadsheets for the City and County of Los Angeles note any conditions and/or mitigation measures that need further review, and document these areas in an appendix for that site visit date. Any issues that required immediate attention were reported to Republic Services (Republic) staff and the appropriate staff at the City of Los Angeles Planning Department, the County of Los Angeles Department of Regional Planning, the County of Los Angeles Department of Public Works and the Sunshine Canyon Landfill Local Enforcement Agency (SCL–LEA).

The Sunshine Canyon Landfill City and County Mitigation Monitoring Summary spreadsheets record by date each site visit and frequency of monitoring of specific conditions and/or mitigation measures. When a condition and/or mitigation measure is monitored, a check mark is made under the date that it was monitored, and the status of being compliant with the conditions and/or mitigation measures' requirements observed during monitoring is recorded. Tasks with a yearly or non-ongoing monitoring frequency are denoted by a forward slash (/) in subsequent date columns. In the status column, the letter "C" is put next to the task if it is Compliant; the letters "NC" are noted if the task status is Non-Compliant; and the letters "FRN" are used if Further Review is Needed for meeting the requirements of the conditions and/or mitigation measures.

Under the Further Review Needed/ Comment column, observed conditions that have been noted as "FRN" in the status column refer to appendices which detail what was observed during the site monitoring. When the conditions and/or mitigation measures that were previously noted as "FRN" are fully compliant, an "R" is placed in the Resolved column and a "C" replaces the "FRN" in the status column. Also noted in the FRN–Comments column are those action items that would improve monitoring efficiency by having reports and documents readily available. These are summarized in the Mitigation Monitoring Summary spreadsheets and the Summary of Requested Documents section of the Quarterly Reports.

This Quarterly Report provides the City of Los Angeles Department of Planning and the County of Los Angeles Department of Regional Planning with a concise status of the Mitigation Measure Monitoring for the period of April 1, 2019 to June 30, 2019. It includes:

1. The City and County Mitigation Monitoring Summary spreadsheets for April 1, 2019 to June 30, 2019. These spreadsheets record the areas of monitoring completed and the status of being compliant during the second quarter of 2019;
2. A Status Summary of Non-Compliant, Further Review Needed and Compliant with the requirements of the conditions and/or mitigation measures;
3. Photo Location Map and Relevant Site Photos showing site conditions of key areas of the landfill during this quarter;
4. Site visit attendees by date of site visit and the mitigation monitoring site report from each monitor;
5. Meeting logs documenting any meetings with Republic staff and/or public agencies, with the topics discussed; and
6. Any site monitoring documenting site changes.

Site Visits During the Quarter

Four site visits were performed by UltraSystems during the April through June 2019 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on April 11, 2019; May 7, 2019; May 28, 2019; and June 18, 2019. The previously discussed conditions and/or mitigation measures were tracked by each specialist who visited, and observations were documented. Site conditions were noted to be: Compliant, Non-Compliant, or Further Review Needed. If a Condition was found to be Non-Compliant or observed as having Further Review Needed, a reference was made to an appendix which details what was observed by the monitor.

Definition of Terms

Compliant is defined as complying with the City and County conditions and/or mitigation measures.

Non-compliant is defined as not complying with the City and County conditions and/or mitigation measures.

Further Review Needed is defined as implementing plans (agency-approved, if required) to fully comply with a condition and/or mitigation measure. Some plans, especially vegetation, require an extended time frame, and immediate compliance is not possible.

> Further Review Needed/ Comments is defined as comments documenting site conditions observed during monitoring visits that are not fully compliant, but action is being taken in order to obtain full compliance with conditions and/or mitigation measures. Recommendations from the monitor, as appropriate, and status from Republic may also be given. The comments section of the monitoring report also provides a summary of activities being done onsite to construct or maintain facilities, and a summary of documents, reports and drawings that should be readily available onsite for monitoring reference.

Resolved is defined as action taken or activities completed to fully comply with conditions and/or mitigation measures.

Status Summary

This section summarizes the conditions and/or mitigation measures that were monitored during the quarterly reporting period and their respective statuses. The Sunshine Canyon Landfill Mitigation Monitoring Summary spreadsheets for the City and County show the conditions and/or mitigation measures monitored during the quarter. Also included in this report are relevant photos in Appendix II.

Compliant

The majority of the conditions and/or mitigation measures monitored were observed to be compliant. There are City and County conditions which are compliant, but are noted as having corresponding comments that refer to the appendices. The Compliant with Comments section of the monitoring report provides a summary of activities being done

onsite to construct or maintain facilities, and a summary of documents, reports and drawings that should be readily available onsite for monitoring reference.

Non-Compliant

During UltraSystems' site visits, no Non-Compliant conditions and/or mitigation measures were noted. Also, it must be understood that any monitoring related to landfill gas and odors are not part of the UltraSystems Monitoring Program at this time. These issues are currently being handled by a multi-agency team, which is led by the South Coast Air Quality Management District (SCAQMD).

Further Review Needed

The following conditions and/or mitigation measures were found not to be fully compliant, but were being worked on in order to obtain full compliance. This section summarizes the progress being made toward being fully compliant. When a condition and/or mitigation measure progresses from "FRN" to fully compliant, it is noted as Resolved in this section, and on the City and County Mitigation Monitoring Summary spreadsheets.

Q-B.2.c (City)
Ancillary Uses and Facilities. The subject property may only be used for the following uses and facilities. These ancillary uses and facilities described in the July 1997 Draft Subsequent EIR, pages 2-38 through 2-43, and may be located on the applicant's property generally in conformance with the diagram attached as Exhibit e-4, and during the life of the landfill, may be moved or relocated following commencement of landfilling operations as necessary to accommodate development of the ultimate landfill footprint.

Geology-1.07 (County)
All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report for the proposed Project, including provisions for excavation approved by the County Department of Public Works, the County Local Enforcement Agency (LEA) and other Responsible Agencies.

Geology-1.11 (County)
Grading allows for ancillary facilities outside of the landfill footprint.

Biota-4.29 (County)
San Diego Horned Lizard: Impact on the San Diego horned lizard can be mitigated to a level of less than significant by restoring coastal sage scrub habitat. This will create a temporal loss of the species, but the population should recover following restoration of this habitat. Topsoils should be selected that are friable to suit lizard habitat requirements.

Biota-4.30 (County)
California Gnatcatcher: Surveys shall be conducted for California gnatcatchers prior to Game Permit onsite grading to determine the status of this Game species within development areas.

Biota-4.33 (County)
Migratory Bird Treaty Act: To prevent the loss of an active migratory bird nest, vegetation shall not be cleared during the breeding season (i.e. March 15 to August 1).

Biota-4.34 (County)
Raptor nests: If habitat removal is proposed during the raptor breeding season (i.e. March to July), a survey shall be conducted for active nesting areas.

Current Status/Comments – The Cell CC-4 Part 3 buttress grading and construction was occurring during the 2nd Quarter of 2019. This grading and buttress construction were the only grading being done outside of the prior-approved grading footprint.

In mid April, the buttress was completed, except for minor grading around the two old, dry hole oil wells that will be re-abandoned and final grading of slopes and installation of drainage v-ditches and channels. Grading started for the development of Cell CC-4 Part 3.

In May and June, grading continued for Cell CC-4 Part 3. This was the only grading for landfill operations except for soil moved from stockpile areas for landfill cover. Liner system development started in late May and is scheduled to be completed by October.

Q-C.3.h (City)

The access roads extended to new fill areas shall be surfaced with recycled asphalt, aggregate materials, or soft stabilization products to minimize the length of untreated dirt.

Current Status/Comments – Throughout the 2nd Quarter of 2019, there was minimal dust coming from site access roads used for operations. Dust was controlled on main access roads by using recycled concrete and asphalt on the roads and water trucks to wet the surfaces. Site roads used by scrapers for construction had occurrences where periodic heavy localized dust was generated.

Q-C.5 (City)
Graffiti removal and deterrence on building and structures in public view.

Current Status/Comments – During the 2nd Quarter, no graffiti was observed.

Q-C.10.c (City)
The operator shall submit, as part of its annual report, an evaluation of the feasibility of beneficial uses of the landfill gas collected at the site such as landfill-gas-to-energy.

Odor/Landfill Gas - 7.07 (County)
The permittee will recover and sell as much gas as is technically and economically feasible to reduce total air quality emissions from the landfill operations. It is expected that the technical and economic feasibility of commercial recovery and sale of landfill gas as a renewable energy resource will occur at levels below 40 MMCFD. The gas collection system will be installed in increments to allow for maximum gas recovery.

Gas - 52 (County)
To the extent technically and economically feasible, the Permittee shall use Landfill gas for energy generation at the Facility or other beneficial uses, rather than flaring, and shall obtain all applicable local, state, and/or federal approvals for any such use. Notwithstanding the forgoing, the Permittee shall be exempt from this Condition No. 52 if, as a 'part of its annual report required by Part X of the IMP, the Permittee determines that any such activity or project is infeasible, which determination shall be subject to the review and approval of the Director of Public Works.

The Permittee shall also install and maintain a landfill gas collection system complying with SCAQMD requirements, which uses best available control technology to control the lateral migration of gases to the satisfaction of the Director of Public Works, County LEA, and SCAQMD. In addition to the other requirements of this Condition No. 52, Landfill gas flares shall be installed below the adjacent interior ridges of the site, unless otherwise required by the SCAQMD, and the flames shall be totally contained within the stacks. Flame arrestors shall be provided to the satisfaction of the County Forester and Fire Warden.

Current Status/Comments – In mid-April, the gas-to-energy plant was using 8007 SCFM of recovered landfill gas, 46% CH4, 1.7% O2, 94 ppm H2S. Flare 1: 2146 SCFM; Flare 3: shut down; Flare 9: 4402 SCFM; Flare 10: 3630 SCFM; Flare 11: shut down. The total volume of landfill gas being recovered was 18,185 SCFM.

In early May, the gas-to-energy plant was using 9128 SCFM of recovered landfill gas, 45% CH4, 1.8% O2, 86 ppm H2S. Flare 1: 2360 SCFM; Flare 3: shut down; Flare 9: 2240 SCFM; Flare 10: 2481 SCFM; Flare 11: 2449 SCFM. The total volume of landfill gas being recovered was 18,858 SCFM.

In late May, the gas-to-energy plant was using 9141 SCFM of recovered landfill gas, 45% CH4, 0.6% O2, >100 ppm H2S. Flare 1: 2451 SCFM; Flare 3: shut down; Flare 9: 2677 SCFM; Flare 10: 2606 SCFM; Flare 11: 2675 SCFM. The total volume of landfill gas being recovered was 19,550 SCFM.

In mid-June, the gas-to-energy plant was using 9225 SCFM of recovered landfill gas, 45% CH4, 0.7% O2, 87 ppm H2S. Flare 1: 2502 SCFM; Flare 3: shut down; Flare 9: 2542 SCFM; Flare 10: 2489 SCFM; Flare 11: 2410 SCFM. The total volume of landfill gas being recovered was 19,168 SCFM.

The quantity of landfill gas being recovered during the 2nd Quarter has averaged 18,940 SCFM, with the gas-to-energy plant usage averaging 8875 SCFM. An expansion of the gas-to-energy plant or different beneficial use facility should be evaluated.

The conditions state that planning for expanding the renewable energy facilities should begin when the quantity and quality of gas being flared can support the installation of a new facility or an expansion of the existing facility, and that the status of the technical and economic feasibility be included in Republic's biennial reports. The typical time required for planning, funding and permitting a renewable energy facility is four years, or more.

T-4 (City)
Prepare a plot plan ["fire plan"] to the satisfaction of the Fire Department.
a. immediate access fire plan [now]
b. plot plan for the future facilities will be submitted when these are implemented

Fire Service - 12.03 (County)
The permittee shall maintain onsite fire response capabilities, construct access road, provide water tanks, water mains, fire hydrants and fire flows and perform brush clearance to the satisfaction of the County Forester and Fire Warden. The landfill will comply with all applicable County codes and ordinances which delineated the requirements for fire access, water mains, fire flows and fire hydrants, specifically defined by the County Fire Department. New construction water tanks, water mains and fire hydrants will be completed to meet the fire flow requirements of the Fire Department.

Current Status/Comments – An updated fire plan showing the new locations of all facilities and emergency egress should be prepared and sent to the local City fire department station, and City and County planning departments when construction of the new operation's facilities currently under construction have been completed. Emergency egress should be posted for employees and customers. It is recommended that the local City fire department station personnel visit the site and be given the latest facility plot plan showing access roads and facilities.

M-4.1.1(2) (City)
Areas outside of and above the cut and fill as shown on the conceptual grading plan shall not be graded, except for the development of ancillary facilities or other related improvements. Additional grading may be necessary for slope stability or drainage purposes. Prior to undertaking any grading activities, the Department of Building and Safety shall be notified and approve any additional grading based on engineering studies (in accordance with CCR Title 27) provided by the project proponent and independently evaluated by the Department of Building and Safety.

M-4.1.1(4) (City)
Grading that allows for construction of ancillary facilities outside of the landfill footprint or that has the potential to impact property beyond the boundary of the landfill shall be approved by the Department of Building and Safety.

M-4.1.1(5) (City)
All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report prepared specifically for the proposed project, including provisions for excavation approved by the Department of Building and Safety, City Engineer, City LEA and other Responsible Agencies.

M-4.1.5(12) (City)
Geologic Hazards - Liquefaction
Alluvium in the canyon bottoms beneath the footprint of the waste containment system and beneath ancillary structures shall be excavated and, if necessary, replaced with compacted structural fill during construction. A qualified geologist shall be onsite during construction activities to observe removal and replacement of alluvium and verify that all alluvium within the landfill footprint has been removed prior to placement of any compacted fill or construction of any containment system elements.

M-4.14.1(155) (City)
Construction of the realigned access roadway shall not exceed 15 percent in grade. An access road shall be constructed and maintained around the working area of the landfill for emergency access for firefighting equipment.

Geology-1.07 (County)
All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report prepared specifically for the proposed Project, including provisions for excavation approved by the County Department of Public Works, the County Local Enforcement Agency (LEA) and other Responsible Agencies.

Current Status/Comments – The only out-of-approved landfill footprint grading occurring in the 2nd Quarter was related to the approved CC-4 Part 3 buttress and related drainage systems. The only other grading occurring was for development of Cell CC-4 Part 3, removal of stockpiled soils for cover, and grooming of slopes. Access roads were being maintained around the working area for emergency access.

M-4.1.1(6) (City)
Revegetation and erosion control procedures on all exposed slopes shall be implemented. The erosion controls to be implemented at the site shall include soil stabilization measures and revegetation in accordance with the approved revegetation plan as approved by the City Building and Safety Department. Interceptor ditches shall be designed to divert storm runoff to a sedimentation basin.

M-4.2.11(23) (City)
Disturbed areas shall be revegetated with an interim ground cover as specified in the proposed revegetation program. Excavation will proceed in a manner to reduce the amount of graded areas at any given time.

M-4.2.12 (28) (City)
Site Erosion
c. A temporary vegetation cover shall be established on all slopes that are to remain inactive for a period longer than 180 days.
d. An SCAQMD approved soil stabilization (sealant) product shall be used to retard soil erosion and enhance revegetation. Soil sealant shall be applied when necessary to selected working areas of the landfill. The sealant will also be used as a binder or tackifier to hold seen during revegetation mulch, and fertilizers in-place until grasses become establish and stabilize on the landfill surface.
Geology-1.13 (County)
Revegetation and erosion control of all exposed slopes will be an ongoing process. The erosion controls to be implemented at the site will include soil stabilization measures and revegetation in accordance with the approved Revegetation Program. The installation of interceptor ditches shall be designed for the diversion of storm runoff to sedimentation basins. Sediment traps will be used at points of runoff concentration along the perimeter of exposed slopes surfaces.
Condition: Approval of drainage plan. Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.

Geology-1.14 (County)
To prevent soil erosion on the face of the landfill, interim vegetation measures will be taken after placement of the temporary soil layer (even though the area may be disturbed by future filling operations). Vegetative cover will be placed as in the approved Revegetation Program.
Condition: Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.

Biota – 4.42 (County)
Areas inactive for 180 days or longer will be planted with interim vegetation as approved by County biologist. Records will be kept to track fill areas of the site which are transferred to an inactive status so that appropriate dust control and revegetation measures can be implemented.

Air Quality - 6.02 (County)
Dust Control will also be accomplished through the temporary revegetation of the landfill surface. A temporary revegetation of the landfill surface, and a temporary vegetation cover will be established on all slopes that are to remain inactive for a period longer than 180 days. Specifications of temporary revegetation measures will be provided in the Revegetation Plan submitted to the County biologist for approval, the Closure and Postclosure Maintenance Plans, the Condition Use Permit, and Conditions of Project Approval.

Visual-10.08 (County)
Cover/Revegetation Requirements
The permittee shall comply with the following cover and re-vegetation requirements at the Landfill:
(1). The permittee shall apply a temporary hydroseed vegetation cover on any slope or other Landfill area that is projected to be inactive for a period greater than 180 days, as set forth in the IMP. The permittee shall promptly notify the County LEA and the Department of Public Works of any such slope or area;
Revegetation Requirements
(5) Notwithstanding the foregoing, the permittee shall not be bound by the previous provisions of this Condition No. 44, but instead by the requirements of the County LEA, so long as the Limits of Fill are not exceeded, if in consultation with the Department of Public Works, the County LEA determines that a different re-vegetation design or plan:
(1) would better protect public health and safety;
(2) would enable revegetation of the final slopes at least as well as shown in Exhibit "B" described in subsection D, above; and/or experts, including an independent, qualified bio (3) would be required because the minimum standards adopted by the CIWMB have been amended;
(6) the permittee shall employ an expert or biologist, to satisfy this Condition No. 44. Soil sampling and laboratory analysis shall be conducted in all areas that are required to be re-vegetated before any re-vegetation occurs to identify chemical or physical soil properties that may adversely affect plant growth or establishment. Soil amendments and fertilizer recommendations shall be applied and plant materials selected, based on the above referenced testing procedures and results. To the extent possible, plant types shall blend with species indigenous to the area, be drought tolerant, and be capable of rapid growth. The selected plants shall not include nonindigenous species that are likely to be invasive of adjacent natural areas.

Biota - Revegetation - 44.A (County)
A. The Permittee shall apply a temporary hydroseed vegetation cover on any slope or other Landfill area that is projected to be inactive for a period greater than 180 days, as set forth in the IMP. The Permittee shall promptly notify the SCL-LEA and the Department of Public Works of any such slope or area.

Revegetation - 44.F/44.F CUP (County)
F. The Permittee shall employ an expert or experts, including an independent, qualified biologist, to satisfy this Condition No. 44. Soil sampling and laboratory analysis shall be conducted in all areas that are required to be re-vegetated before any re-vegetation occurs to identify chemical or physical soil properties that may adversely affect plant growth or establishment. Soil amendments and fertilizer recommendations shall be applied and plant materials selected, based on the above-referenced testing procedures and results. To the extent possible, plant types shall blend with species indigenous to the area, be drought tolerant, and be capable of rapid growth. The selected plants shall not include non-indigenous species that are likely to be invasive of adjacent natural areas.

Current Status/Comments – During the 2nd Quarter, Closure Turf was being maintained, and gas and liquids recovery systems under the turf were performing well. In late May, a new small area was covered with turf. The areas covered with Posi-Shell were eliminated. These cover materials were in lieu of vegetation, and controlled and eliminated dust and erosion. In November of 2018, numerous areas of the inactive site and completed buttress slopes were hydroseeded. The perimeter landfill road was improved using recycled concrete and asphalt. Dust was not being generated by use of this road. The main access road was surfaced with recycled aggregate. Two

water trucks wetted the surface to control any localized wheel dusting. Other roads not surfaced were not being used.

M-4.1.1 (7) (City)

Prior to the initiation of grading activities, the project proponent shall undertake, if necessary, reabandonment procedures as required by the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources.

Current Status/Comments – The two old oil well steel casings in the area north of the landfill offices located in the CC-4 Part 3 buttress grading area have been re-abandoned. The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site was not re-abandoned. This well was not leaking oil or gas and did not pose a current hazard. It is well beyond the approved landfill limits.

M-4.1.6 / 18 (City)

Survey monuments shall be installed around the perimeters of the outer fill areas at points where they would not be subject to disturbance by landfill development and marking the 500-foot setback from the more restrictive zone. The exact spacing, location, and characteristics of the survey monuments shall be submitted to and approved by the City Local Enforcement Agency (LEA).

Current Status/Comments – The landfill perimeter boundary survey PVC marker pipes have been removed in areas where Edison pole grading took place, near the Flare 11 site pad grading and near the Cell CC-4 Part 3 buttress. These boundary markers have not been replaced. All markers should be replaced once the Cell CC-4 Part 3 buttress drainage and road construction is completed.

M-4.2.13/29, 30, 32, 33, 34 (City)

The natural biological processes that generate odors in a landfill through anaerobic decomposition cannot be prevented or avoided. However, the LFGs shall be prevented from escaping to the atmosphere through the use of control measures. These measures include using daily and intermediate cover material over deposited wastes, filling any surface cracks with clean dirt as necessary, and extracting LFG through the use of an LFG collection and recovery system and destroying collected gases by combustion.

Operational techniques shall be utilized to control odor sources at the landfill. The size of the working face shall be limited so that the area of waste exposed to the atmosphere is kept to a minimum.

The LFG collection and recovery system shall be installed in phases as each portion of the landfill site is filled. The final system shall contain a network of gas extraction wells, collection system piping, and flaring facilities. Because the LFG generation begins at lower levels of volume and increases during the landfill site life, the gas will be flared initially until sufficient quantities are available for processing into electricity.

If an odor problem should develop, appropriate control measures shall be implemented. These measures include the application of additional dirt daily cover material or more frequent application of the cover material to seal the landfill surface, or adjustments to the wells, equipment, and operation of the LFG collection and recovery system.

To ensure that odors are kept to a minimum, the following odor/LFG monitoring program shall be implemented for the proposed landfill project. The monitoring program shall comply with the requirements of SCAQMD Rule 1150.1 and include:

a. Sample Probe Installation: One monitoring probe per 1,000 feet or as identified by South Coast Air Quality Management District (SCAQMD) and/or Local Enforcement Agency (LEA) in the landfill expansion, and one probe per 650 feet or as identified by SCAQMD and/or LEA in the City Inactive landfill along the landfill perimeter, or whichever is more restrictive shall be installed to identify

potential areas of subsurface landfill gas (LFG) migration. These probes shall be monitored to ensure that quantities of LFG beyond regulatory standards do not vent offsite through subsurface soils.
b. Integrated Landfill Surface Sampling: The landfill surface shall be monitored to ensure that the average concentration of total organic compounds over the landfill surface does not exceed SCAQMD's standard of 25 ppm.
c. Ambient Air Samples: 24-hour integrated gas samples and required meteorological data shall be taken to assess any impact the landfill is having on the ambient air quality at the landfill perimeter.
d. Instantaneous Landfill Surface Monitoring: Spot checks on the landfill surface shall be made to determine the maximum concentration of total organic compounds measured as methane, measured at any one point on the surface of the landfill does not exceed the SCAQMD's standard of 500 ppm.
e. Regular Monitoring and Annual Testing: LFG concentrations at perimeter probes, gas collection system headers, the landfill surface, and in ambient air downwind of the landfill shall be monitored once per month or less frequently (but no less than quarterly) as required by the SCAQMD. The LFG collection system shall be adjusted and improved based on quarterly monitoring data and annual stack testing results.

Odor/Landfill Gas - 7.06 (County)
If an odor problem should develop, appropriate control measures shall be implemented. These measures include the application of daily cover material or more frequent applicant of the cover material to seal the landfill surface, or adjustments to the wells, equipment, and operation of the LFG collection and recover system.

Amendment 45.N - 4.a, 4.c, 4.d (County)
Identify and provide status on the measures currently being implemented as required by the AQMD's Order for Abatement.
An odor patrol program, which would include the following at a minimum:
• Provide a trained technician to conduct odor patrols in the surrounding neighborhoods at a frequency of one patrol per hour from 6 a.m. to 10 a.m., Monday through Saturday, and during adverse wind conditions.
• If odor is detected, identify its potential and/or actual source, including those that may not be related to the Landfill's operation, such as an odorous trash dumpster or transfer trucks.
• If odor is determined to be related to the Landfill's operation, take immediate action to reduce the odor. Document the streets patrolled on a map, time of the patrol, potential source of odor, and immediate actions taken by the Landfill.
• A landfill gas mitigation plan in preparation for the next rainy season since landfill gas emissions from either the landfill surface or landfill gas control equipment is cited as a potential contributor in the AQMD's Order for Abatement. The plan should include the following at a minimum:
• Description of the site's current Gas Monitoring and Control Plan, including a map showing locations of gas monitoring probes, gas extraction wells, horizontal and vertical gas collection lines, etc.
• Compliance history of the site's landfill gas migration control program from January 1, 2009, to the present quarter as well as any corrective actions.
• Discuss the impacts of the most recent heavy rains on the landfill gas collection system, including identifying locations of damage due to soil erosion, as well as any corrective actions or mitigation measures.
• A work plan that includes preventive measures, such as identifying and filling any surface cracks and installing additional extraction wells, as well as contingency measures.
• An implementation schedule for the above work plan.

Amendment 45.N - 5 (County)

Include in the Quarterly Dust and Odor Reports, which are required by CUP Condition No. 45.N, the status and effectiveness of mitigation measures 1 through 3 above, and the Odor Mitigation Plan.

Current Status/Comments – Compliance with these mitigation measures, concerning landfill gas monitoring and odor control and detection, is being monitored by a multi-agency team led by the SCAQMD, with their monitoring results noted in their reports. Only obvious gas emission sources, odorous operations related to gas and/or gas and landfill liquids, lack of cover, or exposed trash resulting in odor observed during UltraSystems' monitoring visits are reported.

In mid-April, the monitor drove the Granada Hills neighborhood area from 6:45 to 7:15 a.m., and there were no landfill odors detected. There were strong localized odors detected at 12:00 p.m. on the CC-3A top deck. The gas consultant was repairing a broken leachate transfer pipeline.

In early May, the monitor drove the Granada Hills neighborhood areas from 6:15 to 7:00 a.m., and there were no landfill odors detected. A moderate localized landfill gas odor was detected at 10:10 a.m. on the CC-3A top deck near the cactus well. A strong localized liquids odor was detected at 10:30 a.m. coming from tank truck hoses with no caps laying on the ground in the Alder Tank Farm. At 12:00 p.m. there was a moderate localized fresh trash odor at the old Flare 8 facility site.

In late May, the monitor drove the Granada Hills neighborhood area from 6:15 to 7:00 a.m., and there were no landfill odors detected.

In mid-June, the monitor drove the neighborhood and school areas from 6:30 to 7:00 a.m. and at 9:00 to 9:15 a.m., and there were no landfill odors detected. The Cell CC-3A top deck had strong localized gas odors. A gas well was being drilled nearby on the top deck. Strong odors from freshly-disposed waste were detected north of the Flare 9, 10 and 11 facilities site. Odors were not traveling south of the landfill.

Throughout the 2nd Quarter, the use of Closure Turf to seal inactive fill areas with intermediate cover provided enhanced gas recovery and gas-related odor control.

M-4.3.1(37) (City)
As development of the site proceeds, surface drainage systems shall be maintained so that surface runoff is diverted away from working slopes and isolated from landfilled refuse. Onsite drainage channels would be designed per CCR, Title 23, Division 3, Chapter 15, Article 3, §2533(C), and County of Los Angeles Public Works Department, Flood Control Division requirements.

Surface Water - 2.03 (County)
As development of the site proceeds, surface drainage systems shall be maintained so that surface runoff is diverted away from working slopes and isolated from landfilled refuse. Onsite drainage channels would be designed per CCR, Title 23, Division 3, Chapter 15, Article 3, §2546(C), which mandates the requirements for a capital storm event (100-year 24-hour precipitation).

M-4.3.1(38) (City)
Permanent bench drainage ditches shall be installed when final cover is placed on completed portions of the landfill. These ditches shall be lined. Temporary unlined drainage facilities consisting of diversion ditches (V-ditches) where necessary shall directly intercept natural surface runoff. Any intermittent channel flow in the existing canyon bottom shall be captured, channeled, and conveyed into a sedimentation basin. Diversion ditches shall convey surface runoff from the undisturbed areas to the permanent perimeter ditches for safe transport around the landfill footprint. Surface covers of

various types, from mulches to vegetation, shall be used to retard erosion from areas of disturbance. In addition, areas of disturbance shall be kept at a minimum during active filling operations.

Surface Water - 2.12 (County)
Permanent bench drainage ditches shall be installed when final cover is placed on completed portions of the landfill. These ditches shall be lined. Temporary unlined drainage facilities consisting of diversion ditches (V-ditches) where necessary shall directly intercept natural surface runoff. Any intermittent channel flow in the existing canyon bottom shall be captured, channeled, and conveyed into a sedimentation basin. Diversion ditches shall convey surface runoff from the undisturbed areas to the permanent perimeter ditches for safe transport around the landfill footprint. Surface covers of various types, from mulches to vegetation, shall be used to retard erosion from areas of disturbance. In addition, areas of disturbance shall be kept at a minimum during active filling operations.

Current Status/Comments – It is assumed by UltraSystems that the permanent drainage V-ditches and channels are designed in accordance with the referenced regulations. The design drawings and reports should be available for review and use.

In the 2nd Quarter, surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas, and most conveyance V-ditches were unlined. Jute netting and straw wattles have performed well during last year's heavy rain events, with only moderate erosion occurring. The only area that had significant erosion from rain events was in the CC-4 Part 3 buttress area due to active grading that was occurring, and the County sage mitigation area's bare and unprotected slopes.

M-4.3.1(39) (City)
As filling operations progress upward in elevation and laterally across the canyon, both permanent and temporary drainage facilities shall be used to provide appropriate drainage protection. The lower elevation portions of the landfill working face shall be placed under final cover as soon as final grade is attained, and bench ditches shall be installed that will connect to adjacent, permanent perimeter ditches. These ditches shall connect directly to the temporary diversion drainage ditches that will protect the active landfill areas from natural surface runoff.

M-4.18 / 178 (City)
The maximum permitted elevations for the landfill shall not be allowed to be exceeded at any time during landfill development and shall be verified through survey control points.

Current Status/Comments – A map showing areas that are at the final elevations and should have final cover should be available for review. Documents showing current filled elevations should also be available onsite for review. These conditions were not monitored.

M-4.3.1(40) (City)
In order to monitor the effectiveness of those measures designed to prevent pollution from entering the offsite stormwater system, the project proponent shall be required to apply for coverage under the SWRCB General Construction Activities Stormwater Permit Programs.

M-4.3.1(45) (City)
An erosion control plan would be implemented by the project proponent to prevent stormwater pollution from construction activity. Construction materials, equipment and vehicles would be stored or parked in areas protected from stormwater runoff. Construction material loading and unloading

would be in designated areas to minimize any washout due to stormwater runoff. Pre-construction controls would be implemented to include the use of a sandbagging system, including sandbag check dams and sandbag desilting basins, which would be used to limit runoff velocities and minimize sediment in storm water runoff.

Surface Water 2.14 (County)
An erosion control plan would be implemented by the project proponent to prevent stormwater pollution from construction activity. Construction materials, equipment and vehicles would be stored or parked in areas protected from stormwater runoff. Construction material loading and unloading would be in designated areas to minimize any washout due to stormwater runoff. Pre-construction controls would be implemented to include the use of a sandbagging system, including sandbag check dams and sandbag desilting basins, which would be used to limit runoff velocities and minimize sediment in storm water runoff.

Current Status/Comments – The erosion control measures in place by October of last year performed well during the rainy season. The only area where erosion was not controlled is an unvegetated area on the County sage mitigation slope.

M-4.3.1(41) (City)
The surface water collection system shall be designed to collect runoff and collect/retain suspended solids. Water leaving the sedimentation basins shall be monitored in accordance with NPDES requirements.

M-4.3.1(43) (City)
Sediment shall be cleaned out of the sedimentation basins after every significant storm.

Surface Water 2.10 (County)
The surface water collection system shall be designed to collect runoff and collect/retain suspended solids. Water leaving the sedimentation bans shall be monitored in accordance with NPDES requirements. Sediment shall be cleaned out of the sedimentation basins after every significant storm.

Current Status/Comments – In mid-April, sediment was piled and some removed from the terminal basin's inlet area. The area east of the gabion wall had standing water at the top of the outlet risers. A sump pump was being used to drain the basin. The skimmer system was not operational. Basin A was full of water. A significant amount of sediment was in the basin. Water was being pumped and used for construction dust control. There was no discharge channel due to buttress construction. Basin B was dry with minimal sediment.

In early May, a significant amount of sediment was observed in the eastside channel behind velocity humps and gabions. The terminal basin had standing water that covered 50% of the area east of the gabion wall. Deep wet sediment (8 feet to 10 feet deep) covered most of the basin. Water being discharged was free of sediment, but was iron oxide-colored. Basin A had some standing water near the outlet risers. There was a significant amount of wet sediment in the basin. Basin B was dry, with minimal sediment on the basin's floor. There were two areas of soil sloughing into the basin from the native hillsides that needed to be trucked away.

In late May, the eastside drainage channel had significant sediment behind the velocity humps and gabions. The terminal basin was full of water from the gabion wall to the outlet riser. No water was being discharged. Sediment was wet and not being removed. Basin A was filled with water. No

water was being discharged. The basin had a significant amount of sediment. Basin B was dry. Sediment and sloughed hillside soil had not been removed.

In early June, the eastside drainage channel had sediment piles behind the rock gabions and asphalt humps. Sediment was moved into piles in the terminal basin to dry. The water level from the gabion wall to the outlet risers was approximately 6 inches below the top of the outlet. Minimal water was being discharged. The skimmer system was not operating. Basin A was full of wet sediment, with standing water in one-third of the basin near the risers. Basin B was dry with minimal sediment and some sloughed hillside soil.

M-4.3.1(46) (City)
A preventive maintenance program would be implemented by the project proponent, including inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater. This program applies to the onsite drainage ditches; rip-rap; berms and dikes; dust control; silt fences; diversion grading; and pavement surfaces. Each system and piece of stationary equipment would be inspected monthly. Procedures for inspection would vary, due to the piece of equipment or system. However, the major elements of the inspection program would include checking for cracks or structural failures, inspecting parts or pieces of equipment nonfunctioning, checking for the degradation or deterioration of operating units, and investigating the need for cleaning or emptying units. A summary report of these monitoring results and the corrective actions taken will be disseminated in each newsletter with a more detailed report on the website and in the annual report.

Surface Water 2.15 (County)
Surface Water Preventive Maintenance Program
A preventive maintenance program will be implemented by the permittee, including inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater. This program applies to the onsite drainage ditches, rip-rap, berms and dikes, dust control, silt fences, diversion grading, and pavement surfaces. Each system and piece of equipment will be inspected monthly.
Procedures for inspection would vary based on the piece of equipment or system. However, the major elements of the inspection program will include checking for cracks or structural failures, inspecting parts or pieces of equipment nonfunctioning, checking for the degradation or deterioration of operating units, and investigating the need for cleaning or emptying units.

Current Status/Comments – A preventative maintenance program with inspection of facility equipment, systems, and storm water management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater should be performed on a monthly basis, with a summary report issued on a quarterly basis. These reports should be available for agency and monitor review.

During the 2nd Quarter, the high-flow spillway for Basin D into the westside drainage had cracks and spalling that should be repaired. The riser that discharges into the eastside channel does not have top guards to restrict unauthorized access. The Basin B high-flow outlet spillway was cracked in multiple places. The terminal basin had vegetation growing in the interior concrete sidewalls.

In mid-April, the slopes in CC-4 Part 1/Part 2 were graded to repair rain storm erosion. The HDPE downcomer was repaired. The alluvial water had a minor amount of seepage into the terminal basin through the basin floor. The alluvial water cutoff wall pumps were not working properly. Sediment was piled and some removed from the terminal basin's inlet area. The area east of the

gabion wall had standing water at the top of the outlet risers. A sump pump was being used to drain the basin. The skimmer system was not operational. The main access road sloughed slope area near the terminal basin's inlet was graded and had jute netting and straw wattles installed. Basin A was full of water. A significant amount of sediment was in the basin. Water was being pumped and used for construction dust control. There was no discharge channel due to buttress construction. Basin B was dry with minimal sediment.

In early May, a significant amount of sediment was observed in the eastside channel behind velocity humps and gabions. The terminal basin had alluvial iron oxide red-colored water seeping into the basin through seams in the concrete floor. Standing water covered 50% of the area east of the gabion wall. Deep wet sediment (8 feet to 10 feet deep) covered most of the basin. Water being discharged was free of sediment but was iron oxide-colored. Basin A had some standing water near the outlet risers. There was a significant amount of wet sediment in the basin. Basin B was dry, with minimal sediment on the basin's floor. There were two areas of soil sloughing into the basin from native hillsides that needed to be trucked away.

In late May, the eastside drainage channel had significant sediment behind each velocity humps and gabions. The terminal basin was full of water from the gabion wall to the outlet riser. No water was being discharged. Sediment was wet and not being removed. Concrete V-ditches were installed on the area graded for the CC-4 Part 3 buttress, from the area below Flare 3 to Basin A. An access road to Flare 3 was being graded. Basin A was filled with water. No water was being discharged due to buttress construction. Basin B was dry. Sediment and sloughed hillside soil had not been removed. County top deck had minor areas of ponding water.

In mid-June, the eastside drainage channel had sediment piles behind the rock gabions and asphalt humps. Sediment was moved into piles in the terminal basin to dry. A skip loader was being serviced in the basin, and did not have secondary containment. The water level from the gabion wall to the outlet risers was approximately 6 inches below the top of the outlet. Minimal water was being discharged. The skimmer system was not operating. The underdrains seep water was stopped at the CC-3B leachate recovery area. Basin A was full of wet sediment with standing water in one-third of the basin near the risers. Basin B was dry with minimal sediment and some sloughed hillside soil.

M-4.3.2(50) (City)

The LCRS shall be installed at the base and side slopes of the landfill. This system shall be designed and installed to collect generated leachate for disposal consistent with LARWQCB requirements. The collection system shall consist of a filter rock blanket embedded with a system of collection pipes or a blanket embedded with a system of collection pipes or geosynthetic alternative that collects and transports the fluid to a holding tank. In accordance with RCRA, Subtitle D, 40 CFR, Part 258, the collection systems shall be designed to limit the hydraulic head on the liner to less than 12 inches. Collection pipes shall be sized and spaced to reduce the hydraulic head in the leachate collection system as specified in WDRs. Leachate shall be recovered and treated onsite. The treated leachate shall be sampled prior to discharge from the holding tank in accordance with the WDRs to determine suitability for reuse onsite per LAWRQCB requirements. Summary results of this sampling shall be disseminated in the newsletter with more detailed reporting on the website and in the Annual Report.

Current Status/Comments – The Old City North top deck has a tank farm of 16 Alder storage tanks for processing recovered leachate and condensate, with a double-walled pipeline to the sewer

connect at the entrance near San Fernando Road. This system operated with no odor detected at the tank farm or sewer connection. Tank farm liquids were being treated with hydrogen peroxide.

M-4.4.1(60) (City)
Venturan Coastal Sage Scrub
A detailed conceptual mitigation plan shall be prepared by the project proponent and contain specific information on planting, maintenance, and monitoring. A revegetation plan that includes Coastal sage scrub restoration can feasibly occur onsite. The implementation of this plan will provide onsite mitigation greater than 1:1 to offset the loss of coastal sage scrub.

Biota - 4.27 (County)
Venturan Coastal Sage Scrub: A detailed conceptual mitigation plan shall be prepared by the permittee and shall contain specific information on planting, maintenance, and monitoring. A revegetation plan that includes coastal sage scrub restoration can feasibly occur onsite. The implementation of this plan will provide onsite mitigation greater than 1:1 to offset the loss of coastal sage scrub.

Current Status/Comments – In mid-April, the County sage mitigation area was growing and filling in within the areas that previously had spotty native sage community. There were bare areas where there are deep erosion rills. City Deck B sage mitigation planted and seeded areas were growing and doing well. The existing native areas were filling in and growing. All areas were being maintained. City Deck C sage mitigation area was doing well. There was some mustard that needed to be removed.

In early May, Deck B sage mitigation plants were well established, and existing native plants flourished due to the winter rains. Deck C sage mitigation area was doing well. Sage and other native plants were growing in the saltbush understory. Mustard needed to be removed in this area and under the PM10 trees.

In late May, Deck B sage mitigation was growing and filling in. Mustard was not a problem in this area. Deck C sage mitigation was doing well. Mustard had grown and spread. Removal needed to be done.

In mid-June, the County sage mitigation area had filled in with native plants due to the winter rains. One section had deep rills and needed benching and straw wattles. City Deck B sage mitigation area was doing well and was maintained. City Deck C sage mitigation area was doing well. Removal of mustard in and adjacent to this area had not been done.

M-4.4.3/72 (City)
Native tree species shall be replaced at a 2:1 (replacement: removal) ratio, consisting of 15-gallon or 5:1 3-gallong container trees. Mitigation trees shall be planted prior to impacted trees being removed, thus allowing tress to grow to specimen size in the field. A specimen-size tree shall be defined as a 15-gallon tree with a minimum trunk caliper of 1-inch measure 1 foot above ground. All mitigation trees shall be specimen size within 1 year after tree removal.

Biota - 4.10 (County)
The permittee shall comply with all terms and Conditions of Oak Tree Permit No. 86-312-(5). The permittee is authorized to remove oak trees within the project areas as necessary to conduct landfill operations authorized by this grant and subject to the requirements of Part VII of the Implementation and Monitoring Program attached to Oak Tree Permit 86-312-(5). Prior to approving any excavation

of more than five acres containing significant stands of oak and/or Douglas fir trees, the Director of Public Works shall confer with the Los Angeles County Forester and Fire Warden.

Current Status/Comments – An updated mitigation tree report was completed, showing the number and type of mitigation trees required to be planted. A schedule for planting had not been prepared.

M-4.4.2/69 (City)
Potential candidate mitigation sites have been identified by the project proponent in conjunction with resource agencies for consideration to compensate for impacts on riparian and wetland resources as a result of project development. These sites include Bull Creek, Bee Canyon and East Canyon, which are located proximate to the project site. Prior to the development of any detailed mitigation plans and drawings, the final selection will be determined cooperatively by the CDFW, Corps, SWRCB, and other regulatory agencies in conjunction with the City and project proponent.

Current Status/Comments – During the 2nd Quarter, the City was proceeding with an ordinance to allow the wetlands and riparian mitigation to be created in the Chatsworth Reservoir. All environmental analysis has been completed. Republic stated that a change in City staffing has delayed the process. Time extension letters from the US Corps of Engineers and the California Fish and Wildlife are pending.

M-4.9.3(110) (City)
Landfill employees shall watch for any illegal dumping activities on or around the project site. The landfill litter control crew shall provide cleanup servicer for areas within one mile of the project site. The phone number where this service will be requested will be provided in the quarterly newsletter and on the website.

Current Status/Comments – In mid-April, the monitor drove San Fernando Road to Sierra Highway. A piece of fiberboard and some dumped waste were observed north of the I-14 overpass on Sierra Highway. South of the overpass was an abandoned, burnt-out motorhome.

In early May, the monitor drove San Fernando Road to Sierra Highway. Sierra Highway was free of debris and trash. The abandoned motorhome south of the I-14 overpass had not been removed. The monitor drove San Fernando Road south to the I-5 overpass. An abandoned boat and trailer were observed under the I-5 overpass on San Fernando Road. Illegally dumped wood waste, trash and dirt were observed in the same area. This area is outside of Republic's clean-up area. The City was notified of the illegal dumping.

In late May, the monitor drove San Fernando Road to Sierra Highway. The area was free of debris and trash. An abandoned motorhome was still on the Sierra Highway shoulder. The monitor drove to the I-5 overpass. New dumping of trash, debris and dirt was observed. The City 311 was notified by Republic.

M-4.9.4(125) (City)
The landfill operator shall maintain perimeter fencing in and around the site in accordance with CCR, Title 14, § 17658 to discourage illegal entry to the landfill. Where existing topography conditions create an effective barrier, no perimeter fencing shall be installed. Entrance and access gates shall remain locked when the landfill facility is not in operation. All existing perimeter fencing shall be inspected on a routine basis by the landfill operator, and necessary repairs shall be made to ensure a continued deterrent for unauthorized entry to the project site. Additionally, the landfill operator shall

maintain posted "no trespassing" signage at the exterior perimeter fencing nearest the project site entrance.

Current Status/Comments – Throughout the 2nd Quarter of 2019, the south oil field gate and north perimeter gate were observed to be closed and locked.

M-4.19.2(191) (City)
Prior to the commencement of initial earth excavation, specific sections of the City/County Landfill Project area shall be resurveyed as a precautionary measure to minimize potential loss of undiscovered paleontological resources. Specific sections of the project area to be resurveyed shall be as determined by the intended cut-and-fill areas proposed for landfill development. As new areas for excavation are identified by the project proponent, an evaluation of those areas shall be made based on the prior survey results and consultation with appropriate technical specialists.

Ecological Significance 62 (County)
The Permittee shall develop and implement a program to identify and conserve all significant archaeological and paleontological materials found onsite pursuant to Part VII of the IMP. If the Permittee finds any evidence of aboriginal habitation or fossils during earthmoving activities, Landfill operations shall immediately cease in that immediate area, and the evidence and area shall be preserved until a qualified archaeologist or paleontologist, as appropriate, makes a determination as to the significance of the evidence. If the determination indicates that the archaeological or paleontological resources are significant, the resources shall be recovered to the extent practicable prior to resuming Landfill operations in that immediate area of the Landfill.

Current Status/Comments – Throughout the 2nd Quarter of 2019, the paleontologist was monitoring grading activities in and adjacent to Cell CC-4 Part 3 buttress construction when grading occurred in native, undisturbed areas.

Summary of Requested Documents

The following documents, reports and plans are recommended to be made available at the site for agency and monitor review in order to assist in streamlining the monitoring.

a) Current Fill Sequence Plan.

b) A plan showing areas that are inactive for 180 days or longer, with records tracking fill areas and interim reclamation and revegetation, including the timing of proposed work, as well as a plan showing current and projected areas to be within ten feet of the limits of fill.

c) Maps showing areas that are at final elevation, and bench ditches that will connect to drainage ditches to protect against natural surface runoff.

d) The current erosion control plans.

e) Site drainage plans, including surface and underdrain systems, with complementing revegetation plans.

f) A plan/ report of the liner interceptor ditches design/ installation to ensure that surface runoff is appropriately conveyed to the existing flood control channel directly east of the project site entrance.

g) Comprehensive geotechnical reports.

h) A preventative maintenance plan and summary of monitoring reports of inspections of facility equipment, systems and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater.

Conclusions

In this reporting period, UltraSystems has monitored the conditions and/or mitigation measures for the City and County, as shown on the Mitigation Monitoring Summary spreadsheets.

As shown by the Non-Compliant and Further Review Needed sections above, the landfill is actively working toward being fully compliant with conditions and/or mitigation measures, with no non-compliant conditions observed, as Republic was in the engineering, planning, or implementation phases of each. Furthermore, monitoring of the tasks on these Mitigation Monitoring Summary spreadsheets tracks progress toward being fully compliant. Notwithstanding the above, air quality compliance status is not being actively monitored by UltraSystems.

The 2019 Second Quarter Mitigation Monitoring Summary spreadsheets track the progress and completion of tasks as they were accomplished during this quarterly period.

Sunshine Canyon Landfill City Mitigation Monitoring Summary
(04-01-2019 through 06-30-2019)

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	First Quarter 2019																Second Quarter 2019																	
					1/22/2018	Status*	Further Review Needed/Comments**	Resolved*	2/21/2019	Status*	Further Review Needed/Comments**	Resolved*	3/5/2019	Status*	Further Review Needed/Comments**	Resolved*	3/28/2019	Status*	Further Review Needed/Comments**	Resolved*	4/11/2019	Status*	Further Review Needed/Comments**	Resolved*	5/7/2019	Status*	Further Review Needed/Comments**	Resolved*	5/28/2019	Status*	Further Review Needed/Comments**	Resolved*	6/11/2019	Status*	Further Review Needed/Comments**	Resolved*
1	Project Manager																																				
2																																					
3																																					
4	Q - A.3.		Definitions	info	/				/				/				/				/				/				/				/			
5	Q - A.6.		Submit Annual Reports	June yearly	/				/				/				/				/				/				/				/			
6	Q - A.10.		Provision of Fees	yearly	/				/				/				/				/				/				/				/			
7	Q - B.1.		Permitted/Prohibited Landfill Uses	yearly	/				/				/				/				/				/				/				/			
8	Q - B.2		Approval of Landfill	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
9	Q - B.2.c.		Ancillary Uses and Facilities	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
10			Ancillary Uses and Facilities																																		
11	Q - B.2.d (3)		10 Year Phase Review	2015	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
12			10 Year Phase Review																																		
13	Q - B.4.d.		Inert/Exempt Materials	info	/				/				/				/				/				/				/				/			
14	Q - B.5.a.		Prohibited Waste	info	/				/				/				/				/				/				/				/			
15	Q - B.6.		Waste Diversion	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
16	Q - C.3.g.		Paved Access Roads	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
17	Q - C.3.h.		Surfacing of Access Roads	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
18	Q - C.5.		Graffiti Removal and Deterrence	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
19	Q - C.10.c.		Evaluation of Beneficial Gas Usage	June yearly	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
20	Q - C.10.d. (1)		Alternative Fuel Vehicles	status																																	
21	Q - C.10.d. (2)		Alternative Fuel Refuse Collection Trucks	status																																	
22	Q - C.12.a.		Technical Advisory Committee	info	/				/				/				/				/				/				/				/			
23	Q - C.12.c.		Contract for Mitigation Monitoring	info	/				/				/				/				/				/				/				/			
24	Q - C.12.c.		Contract for Mitigation Monitoring-5 years	info	/				/				/				/				/				/				/				/			
25																																					

*** C = Compliant, NC = Non-Compliant, FRN = Further Review Needed, R = Resolved**
**** See Appendix I for Comments**
Checkmark = Condition or mitigation was monitored
/ = Yearly or non-ongoing monitoring frequency

Sunshine Canyon Landfill City Mitigation Monitoring Summary
(04-01-2019 through 06-30-2019)

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	First Quarter 2019															Second Quarter 2019												
					1/22/2018	Status*	Further Review Needed/Comments**	Resolved*	2/21/2019	Status*	Further Review Needed/Comments**	Resolved*	3/5/2019	Status*	Further Review Needed/Comments**	Resolved*	3/28/2019	Status*	Further Review Needed/Comments**	Resolved*	4/11/2019	Status*	Further Review Needed/Comments**	Resolved*	5/7/2019	Status*	Further Review Needed/Comments**	Resolved*	5/28/2019	Status*	Further Review Needed/Comments**	Resolved*	6/11/2019	Status*	Further Review Needed/Comments**	Resolved*
26	T - 4		Fire Plan	status	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
27	T - 5.j.		Trip Diversion	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
28	T - 6		Satisfactory Street Lighting	status	/				/				/				/				/				/				/				/			
29																																				
30	M - 4.1.1	7	Reabandonment Procedures	status	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
31	M - 4.1.4	11	Post-5.0 Earthquake Analysis	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
32	M - 4.2.12	27	Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
33	M - 4.2.12		Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
34	M - 4.2.12	28	Site Erosion-Cover	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
35	M - 4.2.12		Site Erosion-Cell Height	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
36	M - 4.2.12		Site Erosion-Sealant	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
37	M - 4.2.13	29	LFG Control Measures	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h	
38	M - 4.2.13	30	Operational Odor Control Techniques	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h	
39	M - 4.2.13	31	Solid Waste Compaction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
40	M - 4.2.13	32	LFG Collection and Recovery System	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h	
41	M - 4.2.13	33	Odor Control Measures	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
42	M - 4.2.13	34	Odor/LFG Monitoring	ongoing	/		I-a		/		I-b		/		I-c		✓	FRN	I-d		/		I-e		/		I-f		/		I-g		/		I-h	
43			Periodic LFG Monitoring		/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h	
44	M - 4.3.2	52	LFG Migration Mitigation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
45	M - 4.3.2	57	Dust Control Water	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
46	M - 4.4.2	69	Offsite Mitigation Sites	status	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
47	M - 4.4.2	70	Purchasing Wetland Credit	status	/				/				/				/				/				/				/				/			
48	M - 4.4.2	71	Funding-Invasive Species Eradication Program	status	/				/				/				/				/				/				/				/			
49	M - 4.6	85	Site Lighting	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
50	M - 4.7.1	86	Open Space Buffer Area	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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51	M - 4.9.3	106	Litter Minimization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
52	M - 4.9.3	107	Litter/Debris Containment	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
53	M - 4.9.3	108	Vehicle Tarping Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
54	M - 4.9.3	109	Periodic Offsite Litter Pickup	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
55	M - 4.9.3	110	Illegal Dumping Activities	ongoing	✓	C	NONE		✓	C	NONE		✓	FRN	I-c		✓	C	NONE		✓	FRN	I-e		✓	C	NONE		✓	C	NONE		✓	C	NONE	
56	M - 4.9.3	111	Radio Dispatch Litter Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
57	M - 4.9.3	112	Litter Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
58	M - 4.9.5	127	Address Concerns of Citizens' Advisory Committee	ongoing	/				/				/				/				/				/				/				/			
59	M - 4.9.6	128	Landfill Gas/Collection System-Unsafe Methane Levels Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
60	M - 4.9.6	129	Landfill Gas/Collection System-Detection/Training	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
61	M - 4.9.6	130	Landfill Gas/Collection System-Risk Mitigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
62	M - 4.16.4	176	Reclaimed Water	status	/				/				/				/				/				/				/				/			
63	M - 4.16.4	177	Water Conservation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
64																																				
65	Civil & Geotechnical Engineer																																			
66																																				
67																																				
68	M - 4.1.1	2	Grading Outside of Conceptual Grading Plan Area	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
69	M - 4.1.1	3	Unsuitable Material Removal/Buffer Zones	ongoing																																
70	M - 4.1.1	4	Grading Outside of Landfill Footprint	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
71	M - 4.1.1	5	Grading Activity Compliance	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
72	M - 4.1.2	8	Landslide Guidelines	ongoing																																
73	M - 4.1.2	9	Soil Stabilization	ongoing																																
74	M - 4.1.4	10	Landfill Design	ongoing																																
75	M - 4.1.4	11	Earthquake Operations Checklist	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	

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76	M - 4.1.5	12	Geologic Hazards - Liquefaction	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
77	M - 4.1.5	13	Design/Construction-Liquefaction	ongoing																															
78	M - 4.1.5	14	Design/Construction-Containment Structures	ongoing																															
79	M - 4.1.6	15	Refuse Slope Gradients	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
80	M - 4.1.6	16	Cut and Fill Slope Gradients	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
81	M - 4.1.6	17	Final Slope Factors of Safety	ongoing																															
82	M - 4.1.6	18	Survey Monuments	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
83	M - 4.3.2	47	Landfill Liner	ongoing																															
84	M - 4.3.2	48	Landfill Liner	ongoing																															
85	M - 4.3.2	54	Preliminary Closure/Postclosure Plan	status																															
86	M - 4.3.2	55	Landfill Design/Operation/Final Closure Monitoring	status																															
87	M - 4.3.2	56	Cover Application	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
88	M - 4.14.1	155	Access Roadway Grade	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
89	M - 4.18	178	Landfill Elevation Exceedance	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
90																																			
91	Hydrologist																																		
92																																			
93																																			
94	M - 4.1.4	11	Earthquake Operations Checklist	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
95	M - 4.3.1	36	Surface Water Infiltration Minimization	ongoing																															
96	M - 4.3.1	37	Surface Drainage Systems	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
97	M - 4.3.1	38	Permanent/Temporary Ditches	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
98	M - 4.3.1	39	Drainage Protection	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
99	M - 4.3.1	40	SWRCB Permit Coverage	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
100	M - 4.3.1	41	Surface Water Collection System	ongoing																															
101	M - 4.3.1	42	Surface Water Quality Monitoring	ongoing																															
102	M - 4.3.1	43	Sediment Basin Maintenance	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	

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103	M - 4.3.1	44	Final Landfill Cover	ongoing																													
104	M - 4.3.1	45	Erosion Control Plan	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
105	M - 4.3.1	46	Preventive Maintenance Program	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
106	M - 4.3.2	49	Interception of Groundwater Seepage	ongoing																													
107	M - 4.3.2	50	LCRS/Leachate Monitoring	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
108	M - 4.3.2	51	LCRS Monitoring	ongoing																													
109																																	
110	Biologist																																
111																																	
112																																	
113	M - 4.1.1	6	Slope Erosion Control	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
114	M - 4.2.11	23	Revegetation/Excavation	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
115	M - 4.2.12		Temporary Vegetation Cover	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
116	M - 4.4.1	60	Coastal Sage Scrub Mitigation Plan	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
117	M - 4.4.1	61	Coastal Sage Scrub Seeding	ongoing																													
118	M - 4.4.1	62	Mariposa Lily Mitigation Plan	ongoing	/				/				/				/				/				/				/				/			
119	M - 4.4.1	63	San Diego Horned Lizard Mitigation	ongoing	/				/				/				/				/				/				/				/			
120	M - 4.4.1	64	California Gnatcatcher Surveys	ongoing	/				/				/				/				/				/				/				/			
121	M - 4.4.1	65	Least Bell's Vireo Surveys	ongoing	/				/				/				/				/				/				/				/			
122	M - 4.4.1	66	Western Burrowing Owl Surveys	ongoing	/				/				/				/				/				/				/				/			
123	M - 4.4.1	67	Migratory Bird Treaty Act	ongoing	/				/				/				/				/				/				/				/			
124	M - 4.4.1	68	Raptor Nests Habitat	ongoing	/				/				/				/				/				/				/				/			
125	M - 4.4.3	72	Native Tree Mitigation	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
126	M - 4.4.3	73	Nonnative Tree Mitigation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
127	M - 4.4.3	74	Mitigation Tree Planting	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
128	M - 4.4.3	75	Tree Planting Mitigation Site Prep	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
129	M - 4.4.3	76	Poultry Wire Screen	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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130	M - 4.4.3	77	Backfill Material	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
131	M - 4.4.3	78	Tree Planting Procedure	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
132	M - 4.4.3	79	Tree Area Mulching	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
133	M - 4.4.3	80	Tree Irrigation/Fertilization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
134	M - 4.4.3	81	Irrigation System	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
135	M - 4.4.3	82	Annual Tree Monitoring Report	annual	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
136	M - 4.9.2	96	Vector Activity Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
137	M - 4.9.2	97	Vector Elimination	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
138	M - 4.9.2	98	Fly Control	ongoing																														
139	M - 4.9.2	99	Rodent Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
140	M - 4.9.2	100	Operational Vector-Limiting Activity	ongoing																														
141	M - 4.9.2	101	Equipment Cleanliness/Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
142	M - 4.9.2	102	Storage of Vector-Attracting Items	ongoing																														
143	M - 4.9.2	103	Salvaged Material Storage-Vector Control	ongoing																														
144	M - 4.9.2	104	Periodic Vector Inspections	ongoing																														
145	M - 4.9.2	105	Implementation of Vector Control Measures	ongoing																														
146																																		
147	Air Quality & Noise Specialist																																	
148																																		
149																																		
150	M - 4.2.11	19	Emissions Mitigation Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
151	M - 4.2.11	19	Construction Curtailing due to Pollution	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
152	M - 4.2.11	20	Dust Lofting Minimization	ongoing																														
153	M - 4.2.11	21	Wind Speed Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
154	M - 4.2.11	22	Grading-Dust Reduction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
155	M - 4.2.12	24	Construction Equipment Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
156	M - 4.2.12		Construction Curtailing due to Pollution	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	

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157	M - 4.2.12	25	Refuse Trucks-Maintenance	ongoing																														
158	M - 4.2.12		Refuse Trucks-Engine	ongoing																														
159	M - 4.2.12		Refuse Trucks-Fee Schedule	ongoing																														
160	M - 4.2.12		Refuse Trucks-Fee Schedule Delivery Time	ongoing																														
161	M - 4.2.12		Refuse Trucks-Idling	ongoing																														
162	M - 4.2.12		Refuse Trucks-Emissions	ongoing																														
163	M - 4.2.12	26	Truck Travel and Fugitive Dust Emissions	ongoing																														
164	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																														
165	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																														
166	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																														
167	M - 4.5.2	83	Landfill Hours	info	/				/				/				/				/				/				/				/			
168	M - 4.5.2	84	Landfill Equipment-Noise Reduction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
169																																		
170	Hydrology, Hazardous Waste / Risk of Upset																																	
171																																		
172																																		
173	M - 4.3.2	53	Groundwater Monitoring Wells	ongoing																														
174	M - 4.3.2	58	Operation as Class III Landfill	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
175	M - 4.3.2	59	Underground Fuel Storage	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
176	M - 4.9.1	90	Refuse Inspection Program	ongoing																														
177	M - 4.9.1	91	Hazardous Waste Load-Checking	status																														
178	M - 4.9.1	93	Hazardous Waste Detection Training	status																														
179	M - 4.9.1	94	Spill Response Program	status																														
180	M - 4.9.4	115	Safety Inspections/Checklists	ongoing																														
181	M - 4.9.4	118	Accident/Injury reports, Inspections	status																														
182	M - 4.9.4	121	Fire Prevention Plan	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	

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183	M - 4.9.4	123	Personal Protective Equipment	ongoing																														
184	M - 4.9.4	125	Site Access/Fencing	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
185	M - 4.14.1	147	Fire Response Capabilities	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
186	M - 4.14.1	148	Hydrant Installation	ongoing																														
187																																		
188	Archaeologist																																	
189																																		
190																																		
191	M - 4.19.1	183	Archaeological Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
192	M - 4.19.1	184	Onsite Archaeologist	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
193	M - 4.19.1	185	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
194	M - 4.19.1	186	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
195																																		
196	Paleontologist																																	
197																																		
198																																		
199	M - 4.19.2	187	Paleontological Resources Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
200	M - 4.19.2	188	Paleontological Resources Excavation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
201	M - 4.19.2	189	Paleontological Resources Training	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
202	M - 4.19.2	190	Paleontological Resources Recovery	ongoing																														
203	M - 4.19.2	191	Paleontological Resources Inspection	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	

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1	Project Manager																																	
2																																		
3																																		
4	Amendment 45.N - 1	45N	Daily Cover Materials	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
5	Amendment 45.N - 3	45N	Daily Cover Procedure	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
6	Amendment 45.N - 4.a	45N	Order for Abatement Status	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h	
7	Amendment 45.N - 4.c	45N	Odor Patrol Program	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h	
8	Amendment 45.N - 4.d	45N	Landfill Gas Mitigation Plan	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h	
9	Amendment 45.N - 5	45N	Dust and Odor Reports	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h	
10																																		
11	Combined Site & Bridge Area -20.A	20.A	Joint Powers Authority	info	/				/				/				/				/				/				/				/			
12	Combined Site & Bridge Area -20.F	20.F	Mitigation Reporting and Monitoring Program Amendment	status	/				/				/				/				/				/				/				/			
13	Landfill Capacity - 27	27	Tipping Fees for Partial Loads/Peak Hours	status																																
14	Grading & Drainage-41.A -.D	41A-D	Water Conservation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
15	Revegetation - 44.F	44.F	Revegetation	status	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
16	Fugitive Dust - 45.B	45.B	Working Face Areas	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
17	Fugitive Dust - 45.F	45.F	Inactive Areas Monitoring	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
18	Fugitive Dust - 45.I	45.I	Cleaning of Roads	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
19	Litter Control - 46.A - .D	46A-D	Litter Control Program	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
20	Gas - 52	52	Landfill Gas Collection System	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
21	Traffic - 57	57	Traffic Improvements	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
22	Traffic - 60	60	Street Light Installation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
23	Traffic - 61	61	Traffic Minimization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
24	Permittee Fees - 64 - 72	64-72	Permittee Fees	info	/				/				/				/				/				/				/				/			
25	Permittee Fees - 69	69	Permittee Fees-Contributions	info	/				/				/				/				/				/				/				/			
26	Permittee Fees - 70	70	Permittee Fees	info	/				/				/				/				/				/				/				/			
27	Permittee Fees - 72	72	Permittee Fees	info	/				/				/				/				/				/				/				/			
28	Alternative Fuel Vehicles - 77.A	77.A	Alternative Fuel Vehicles-Light Duty	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
29	Alternative Fuel Vehicles - 77.B	77.B	Alternative Fuel Vehicles-Refuse/Collection Trucks	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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30	Alternative Fuel Vehicles - 77.C	77.C	Alternative Fuel Vehicles-Report	status																														
31	Alternative Fuel Vehicles - 77.D	77.D	Alternative Fuel Vehicles-heavy-duty, alternative fuel off-road equipment pilot program	status																														
32	Alternative Fuel Vehicles - 77.E	77.E	Alternative Fuel Vehicles-Non-diesel Requirements	status																														
33	Alternative Fuel Vehicles - 77.F	77.F	Alternative Fuel Vehicles-Non-diesel Truck Trip Requirements	status																														
34	Alternative Fuel Vehicles - 77.G	77.G	Alternative Fuel Vehicles-Clean Fuel Demo Program	status																														
35	Alternative Fuel Vehicles - 77.H	77.H	Alternative Fuel Vehicles-Compliance Evaluation	status																														
36	Air Quality Monitoring - 81	81	Air Quality Monitoring-Testing	ongoing	/				/				/				/				/				/				/				/			
37			Air Quality Monitoring-Testing																																	
38	IMP - Part I.A	IMP1	Air Quality Monitoring-Testing	ongoing	/				/				/				/				/				/				/				/			
39			Air Quality Monitoring-Testing																																	
40	IMP - Part VI	IMP6	Air Quality Monitoring-Testing	ongoing	/				/				/				/				/				/				/				/			
41																																				
42	MMRS-12/01/06		Mitigation Monitoring and Reporting Summary	info	/				/				/				/				/				/				/				/			
43			Permits																																	
44	Geology - 1.15		Permittee's On-site Solid Waste Recovery and Recycling Program	status	/				/				/				/				/				/				/				/			
45	Surface Water - 2.09		SWRCB Permit Coverage	ongoing	/				/				/				/				/				/				/				/			
46	Surface Water - 2.15		Surface Water Preventive Maintenance Program	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
47	Groundwater - 3.13		Groundwater-LFG Migration Mitigation	ongoing																																
48	Groundwater - 3.14		Groundwater-Monitoring Wells	ongoing																																
49	BIOTA – 4.05		Annual Fee Submission for SEA Studies	status	/				/				/				/				/				/				/				/			
50	BIOTA – 4.06		Buffer Zone Maintenance as Nature Preserve	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
51	BIOTA – 4.07		Buffer Zone Maintenance-Vegetation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
52	BIOTA – 4.08		Ridgeline Maintenance-Remain Undisturbed	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
53	BIOTA – 4.47		Cleaning of Equipment	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
54	BIOTA – 4.48		Monitoring of Vector-Attracting Items	ongoing																																
55	BIOTA – 4.49		Salvaged Material Storage-Vector Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
56	BIOTA – 4.50		Vector Activity Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
57	Air Quality - 6.03		Dust Emission Minimization	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	

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58	Air Quality - 6.04		Usage of Cut Material for Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
59	Air Quality - 6.05		Operations in Accordance with SCAQMD/DOPW Requirements	info	/				/				/				/				/				/				/				/			
60	Air Quality - 6.06		Landfill Gas Control/Extraction System/Monitoring	ongoing	/				/				/				/				/				/				/				/			
61	Air Quality - 6.07		Flaring Systems	info	/				/				/				/				/				/				/				/			
62	Air Quality - 6.08		Management of Truck Arrivals	ongoing																																
63	Air Quality - 6.10		Refuse Truck Mitigation	status																																
64	Air Quality - 6.11		Light Duty Alternative Fuel Vehicles	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
65	Air Quality - 6.11		Alternative Fuel Refuse Collection/Transfer Trucks	status																																
66	Air Quality - 6.11		Alternative Fuel Vehicle Report Submission	status																																
67	Air Quality - 6.11		Heavy-duty, Alternative Fuel Off-Road Equipment Pilot Program	status																																
68	Air Quality - 6.11		Non-Diesel, Alternative Fuel Vehicles-Transfer/Collection Trucks	status																																
69	Air Quality - 6.11		Non-Diesel, Alternative Fuel Vehicles Truck Trips	status																																
70	Air Quality - 6.11		Clean Fuel Demonstration Program	status																																
71	Air Quality - 6.11		Compliance Evaluation	status																																
72	Odor/Landfill Gas – 7.01		Landfill Gas Escape Prevention	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
73	Odor/Landfill Gas – 7.02		Landfill Gas Collection System	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
74	Odor/Landfill Gas – 7.04		Gas Collection/Flare System Risk Mitigation	ongoing																																
75	Odor/Landfill Gas – 7.05		Wellhead Awareness	status	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	R	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
76	Odor/Landfill Gas – 7.06		Odor Control Measures	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	R	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
77	Odor/Landfill Gas – 7.07		Gas Recovery and Sale	status	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	R	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
78	Traffic/Circulation – 8.03		Street Light Installation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
79	Traffic/Circulation – 8.04		Truck Traffic Minimization	status																																
80	Traffic/Circulation – 8.08		Tipping Fees for Partial Loads/Peak Hours	status																																
81	Traffic/Circulation – 8.10		Nighttime Landfill Operations Feasibility	status	/				/				/				/				/				/				/				/			
82	Traffic/Circulation – 8.11		Parking Management along San Fernando Road	status	/				/				/				/				/				/				/				/			
83	Traffic/Circulation – 8.13		Adequate Queuing	status																																
84	Visual – 10.03		Landfill Flare Locations	status	/				/				/				/				/				/				/				/			

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85	Visual – 10.04		Confinement of Excavation Cover Material	status																														
86	Visual – 10.05		Lighting Requirements	status																														
87	Visual – 10.11		Litter Control Program	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
88	Visual – 10.11		Solid Waste Load Procedures-Improperly Covered/Contained	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
89	Visual – 10.11		Debris Removal at Entrance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
90	Visual – 10.11		Litter Control-Fencing	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
91	Visual – 10.11		Periodic Litter Pickup	ongoing	✓	C	NONE		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	C	NONE		✓	C	NONE		✓	C	NONE	
92	Visual – 10.11		Litter Control-Additional Measures	ongoing																														
93	Visual – 10.12		Discharge Control/Litter Recovery	status																														
94	Water Conserv. - 11.01		Water Conservation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
95	Recycling - 14.01		On-site Waste Diversion/Recycling	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
96	Recycling - 14.03		Tonnage Disposal Determination	info	/				/				/				/				/				/				/				/			
97	Recycling - 14.04		Recycling-Various Tasks	info	/				/				/				/				/				/				/				/			
98			Clean Dirt Procedures																																	
99	Site - 15.11		Reclaimed Water Utilization	status	/				/				/				/				/				/				/				/			
100	Site - 15.12		Water Conservation Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
101	Admin Rpts/Pgms - 17.4		Operation Compliance	info	/				/				/				/				/				/				/				/			
102	Admin Rpts/Pgms -17.10		Fill Sequencing Plans	status																														
103	Admin Rpts/Pgms-17.15		Quarterly Newsletter	status																														
104	Landfill Operation - 18.7		Graffiti Removal/Deterrent Plan	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
122																																		
123	Civil & Geotechnical Engineer																																	
124																																		
125																																		
126	Revegetation - 44.C	44.C	Cut Slope Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
127																																		
128	Geology - 1.01		Survey Monument Locations	ongoing																														
129	Geology - 1.02		Seismic Design	ongoing																														
130	Geology - 1.03		Maximum Refuse Slope Gradients	ongoing																														

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131	Geology - 1.04		Maximum Refuse Slope Gradients	ongoing																														
132	Geology - 1.05		Unsuitable Material Procedures	ongoing																														
133	Geology - 1.06		Grading Activities Procedures	ongoing																														
134	Geology - 1.07		Grading Activities Procedures	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
135	Geology - 1.09		Outer Perimeter Ridgeline Requirements	info																														
136	Geology - 1.12		Soil Stabilization	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
137	Geology - 1.16		Checklists/Surveys Following Earthquake	upon event	✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE	
138	Geology - 1.18		Alluvium-Removal/Replacement	ongoing																														
139	Geology - 1.19		Landfill Design/Construction	ongoing																														
140	Geology - 1.20		Landfill Design/Construction-Foundations	ongoing																														
141	Surface Water - 2.03		Surface Drainage Control Facilities	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
142	Surface Water - 2.05		Underdrain Requirements	ongoing																														
143	Surface Water - 2.06		Final Cover for Surface Water Runoff Control	ongoing																														
144	Groundwater - 3.02		Liner System Requirements	ongoing																														
145	Groundwater - 3.04		Onsite Inspector for Liner Installation	ongoing																														
146	Groundwater - 3.09		Alluvium Removal	ongoing																														
147	Visual – 10.01		Landfill Elevations	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
148	Visual – 10.02		Final Fill Elevations	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
149																																		
150	Hydrologist																																	
151																																		
152																																		
153	Grading & Drainage - 38	38	Installation of Drainage Structures	ongoing																														
154																																		
155	Geology - 1.17		Landfill Design/Construction-Seismic	ongoing																														
156	Surface Water - 2.01		Surface Water Runoff Interception	ongoing																														
157	Surface Water - 2.02		Surface Water Runoff Collection	ongoing																														
158	Surface Water - 2.03		Surface Drainage Control-Maintenance	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
159	Surface Water - 2-04		Sedimentation Basin Capabilities	ongoing																														

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160	Surface Water - 2.05		Underdrain Placement	ongoing																														
161	Surface Water - 2.07		Drainage Control System Design Approval	ongoing																														
162	Surface Water - 2.08		Surface Water Runoff-Drainage System	ongoing																														
163	Surface Water - 2.10		Surface Water Collection System-Monitoring	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
164	Surface Water - 2.11		Surface Water Quality-Collection/Monitoring	ongoing																														
165	Surface Water - 2.12		Permanent/Temporary Drainage Facilities	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
166	Surface Water - 2.13		Permanent/Temporary Drainage Facilities	ongoing																														
167	Surface Water - 2.14		Erosion Control Plan	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
168	Groundwater - 3.03		Interception of Groundwater Seepage	ongoing																														
169	Groundwater - 3.06		Monitoring Wells	ongoing																														
170																																		
171	Biologist																																	
172																																		
173																																		
174	Revegetation - 44	44	Revegetation/Cover Requirements	ongoing																														
175	Revegetation - 44.A	44.A	Temporary Hydroseed Vegetation	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
176	Revegetation - 44.B	44.B	Interim Reclamation/Revegetation Plan-Sold Waste	ongoing																														
177	Revegetation - 44.D	44.D	Final Fill Slope Requirements	ongoing																														
178	Revegetation - 44.E	44.E		ongoing																														
179																																		
180	Geology - 1.13		Drainage Plan Approval	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
181	Geology - 1.14		Personnel Retention for Monitoring Soil Erosion	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
182	Groundwater - 3.11		Irrigation/Revegetation Management-Personnel Retention	ongoing																														
183	BIOTA – 4.10		Oak Tree Permit	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
184	BIOTA – 4.11		Oak Tree Mitigation Plan	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
185	BIOTA – 4.13		Oak Tree Mitigation Counting	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
186	BIOTA – 4.20		Poultry Wire Screen	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
187	BIOTA – 4.24		Drip Irrigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
188	BIOTA – 4.27		Coastal Sage Scrub Mitigation Plan	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
189	BIOTA – 4.28		Coastal Sage Scrub Seeding	ongoing																														

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190	BIOTA – 4.29		San Diego Horned Lizard Mitigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
191	BIOTA – 4.30		California Gnatcatcher Surveys	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
192	BIOTA – 4.31		Least Bell's Vireo Surveys	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
193	BIOTA – 4.32		Western Burrowing Owl Surveys	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
194	BIOTA – 4.33		Migratory Bird Treaty Act	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
195	BIOTA – 4.34		Raptor Nests Habitat	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
196	BIOTA – 4.36		Personnel Retention for Monitoring Revegetation Plan	ongoing																															
197	BIOTA – 4.37		Personnel Retention for Monitoring Revegetation Plan, Onsite Plants	status																															
198	BIOTA – 4.38		Green Waste Material	ongoing																															
199	BIOTA – 4.39		Revegetation of Slopes/Fill Areas	ongoing																															
200	BIOTA – 4.41		Revegetation Plan-Replacement Cover	ongoing																															
201	BIOTA – 4.42		Interim Vegetation	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
202	BIOTA – 4.43		Replacement Riparian Habitat	status	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
203	Air Quality - 6.02		Dust Control	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	
204	Visual – 10.06		Upper Ridge Planting/Revegetation	ongoing																															
205	Visual – 10.07		Tree Planting Around Perimeter	ongoing																															
206	Visual – 10.08		Cover/Revegetation Requirements	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
207	Visual – 10.08		Solid Waste Disposal Procedures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
208	Visual – 10.08		Final Cut Slope Steepness	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
209	Visual – 10.08		Final Fill Slopes-Reclamation/Revegetation	status																															
210	Visual – 10.08		Revegetation Requirements	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
211	Visual – 10.09		Final Cover Composition Requirements	ongoing																															
212	Visual – 10.10		Buffer Zone Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
213	Water Conservation - 11.02		Plant Species	ongoing																															
214	Fire Service - 12.01		Brush Clearance Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
215																																			
216	Air Quality & Noise Specialist																																		
217																																			
218																																			

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(04-01-2019 through 06-30-2019)

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					1/22/2019	Status*	Further Review Needed/Comments**	Resolved*	2/21/2019	Status*	Further Review Needed/Comments**	Resolved*	3/5/2019	Status*	Further Review Needed/Comments**	Resolved*	3/28/2019	Status*	Further Review Needed/Comments**	Resolved*	4/11/2019	Status*	Further Review Needed/Comments**	Resolved*	5/7/2019	Status*	Further Review Needed/Comments**	Resolved*	5/28/2019	Status*	Further Review Needed/Comments**	Resolved*	6/11/2019	Status*	Further Review Needed/Comments**	Resolved*
219	Fugitive Dust - 45.F	45.F	Fugitive Dust Monitoring	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
220	Fugitive Dust - 45.I	45.I	Paved Roads-Cleaning	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
221	Fugitive Dust - 45.N	45.N	Report Submission-Dust/Odor	every quarter																															
222	Air Quality Monitoring - 81	81	Air Quality Monitoring-Tests	ongoing																															
223																																			
224																																			
225	Air Quality – 6.01		Fugitive Dust Aversion	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
226	Air Quality – 6.01		Working Face Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
227	Air Quality – 6.01		Erosion Control-Daily Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
228	Air Quality – 6.01		Soil Stockpile Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
229	Air Quality – 6.01		Active Area Fill	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
230	Air Quality – 6.01		Soil Sealant	ongoing																															
231	Air Quality – 6.01		Dust Emissions-Road Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
232	Air Quality – 6.01		Access Roads-Paving	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
233	Air Quality – 6.01		Dust Generation-Dumping	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
234	Air Quality – 6.01		Water Tanks/Piping Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
235	Air Quality – 6.01		Wind Speed Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
236	Air Quality – 6.01		Report Submission-Dust/Odor	every quarter	/				/				/				/				/				/				/				/			
237	Odor/Landfill Gas – 7.03		Odor/Landfill Gas Monitoring Program	ongoing	/				/				/				/				/				/				/				/			
238	Odor/Landfill Gas – 7.03		Landfill Surface Sampling	ongoing	/				/				/				/				/				/				/				/			
239	Odor/Landfill Gas – 7.03		Landfill Perimeter Air Samples	ongoing	/				/				/				/				/				/				/				/			
240	Odor/Landfill Gas – 7.03		Landfill Surface Monitoring	ongoing	/				/				/				/				/				/				/				/			
241	Odor/Landfill Gas – 7.03		LFG Collection System Monitoring	ongoing	/				/				/				/				/				/				/				/			
242	Noise – 9.01		Landfill Access/Operation	info	/				/				/				/				/				/				/				/			
243	Noise – 9.03		Landfill Equipment-Mufflers/Silencers	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
244	Admin Rpts/ Pgms-17.16		Air Quality Monitoring-Corrective Action Plan	ongoing	/				/				/				/				/				/				/				/			
246																																			
247	Hydrology, Hazardous Waste / Risk of Upset																																		
248																																			

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249																																		
250	IMP - Part IV.E	IMP4	Load Inspection-Random Manual	ongoing																														
251																																		
252	Groundwater - 3.05		Leachate Collection and Removal System	ongoing																														
253	Groundwater - 3.15		Underground Diesel Fuel Storage Tanks	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
254	Fire Service - 12.02		On-site Fire Response Capabilities-Operating Equipment	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
255	Fire Service - 12.03		On-site Fire Response Capabilities-Roads/Water	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
256	Fire Service - 12.04		On-site Fuel Storage Tanks-Permit Issuance	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
257	Fire Service - 12.05		Building Limits	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
258	Fire Service - 12.06		Methane Gas Monitoring-On-site Structures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
259	Hazardous Materials – 13.02		Waste Load Checking Program	ongoing																														
260	Hazardous Materials – 13.05		Hazardous Waste Disposal	ongoing																														
261	Hazardous Materials – 13.10		Hazardous Waste-Procedures	ongoing																														
262	Hazardous Materials – 13.11		Spill Response Program	ongoing																														
263	Safety - 16.02		Injury and Illness Prevention Program	status																														
264	Safety - 16.03		Working Conditions-Monitoring	status																														
265	Safety - 16.04		Inspection Checklist-Work Area Exposure	status																														
266	Safety - 16.07		Accident/Injury Reports	status																														
267	Safety - 16.08		First-aid Kits	ongoing																														
268	Safety - 16.10		Lockout/Blackout Procedures	status																														
269	Safety - 16.11		Personal Protective Equipment	status																														
270	Landfill Operation - 18.8		Prohibited Waste Procedures	ongoing																														
271																																		
272	Archaeologist																																	
273																																		
274																																		
275	Ecological Significance - 62	62	Archaeological/Paleontological Identification/Conservation Program	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
276	IMP - Part VII.B	IMP7	Archaeological/Paleontological Report Submission	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
277	Archaeological – 5.01		Archaeological Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	

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278	Archaeological – 5.02		Onsite Archaeologist	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
279	Archaeological – 5.03		Onsite Paleontologist	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
280	Archaeological – 5.04		Archaeological/Paleontological Identification Instruction	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
281	Archaeological – 5.05		Archaeological Resource Curation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
282																																				
283	Paleontologist																																			
284																																				
285																																				
286	Ecological Significance - 62	62	Archaeological/Paleontological -Material Identification/Conservation	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h	
287	IMP - Part VII.B	IMP7	Archaeological/Paleontological-Report Submission	ongoing																																

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Appendix I
Further Review Needed Comments: Reference I-e through I-h
Second Quarter 2019 Site Visits

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	Q – B.2.c		City Planning	I-e through I-h: The CC-4 Part 3 buttress grading and construction was occurring during the 2nd Quarter of 2019. This grading and buttress construction is the only grading being done outside of the prior-approved landfill footprint. I-e: The buttress was completed, except for minor grading around the two old, dry hole oil wells that will be re-abandoned and final grading of slopes and installation of drainage v-ditches and channels. Grading started for the development of Cell CC-4 Part 3. I-f through I-h: Grading continued for Cell CC-4 Part 3. This was the only grading for landfill operations except for soil moved from stockpile areas for landfill cover. Liner system development started in late May and is scheduled to be completed by October.
		Geology - 1.07	County DPW EPD/SCL-LEA	I-e through I-h: See Q – B.2.c above.
		Geology - 1.12	County DPW EPD/SCL-LEA	I-e through I-h: See Q – B.2.c above.
	Q - C.3.h		City Planning	I-e through I-h: In the 2nd Quarter of 2019, there was minimal dust coming from site access roads used for operations. Site roads used by scrapers for construction had occurrences where periodic heavy localized dust was generated.
	Q - C.10.c		City Planning	I-e: The gas-to-energy plant was using 8007 SCFM of recovered landfill gas, 46% CH4, 1.7% O2, 94 ppm H2S. Flare 1: 2146 SCFM; Flare 3: shut down; Flare 9: 4402 SCFM; Flare 10: 3630 SCFM; Flare 11: shut down. The total volume of landfill gas being recovered was 18,185 SCFM. I-f: The gas-to-energy plant was using 9128 SCFM of recovered landfill gas, 45% CH4, 1.8% O2, 86 ppm H2S. Flare 1: 2360 SCFM; Flare 3: shut down; Flare 9: 2240 SCFM; Flare 10: 2481 SCFM; Flare 11: 2449 SCFM. The total volume of landfill gas being recovered was 18,858 SCFM. I-g: The gas-to-energy plant was using 9141 SCFM of recovered landfill gas, 45% CH4, 0.6% O2, >100 ppm H2S. Flare 1: 2451 SCFM; Flare 3: shut down; Flare 9: 2677 SCFM; Flare 10: 2606 SCFM; Flare 11: 2675 SCFM. The total volume of landfill gas being recovered was 19,550 SCFM. I-h: The gas-to-energy plant was using 9225 SCFM of recovered landfill gas, 45% CH4, 0.7% O2, 87 ppm H2S. Flare 1: 2502 SCFM; Flare 3: shut down; Flare 9: 2542 SCFM; Flare 10: 2489 SCFM; Flare 11: 2410 SCFM. The total volume of landfill gas being recovered was 19,168 SCFM. I-e through I-h: The quantity of landfill gas being recovered during the 2nd Quarter has averaged 18,940 SCFM, with the gas-to-energy plant usage averaging 8875 SCFM. An expansion of the gas-to-energy plant or different beneficial use facility should be evaluated.
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-e through I-h: See Q - C.10.c above.
		Gas - 52	County DPW EPD/SCL-LEA County Forester Fire Warden	I-e through I-h: See Q - C.10.c above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	T-4		City Planning, City Fire Department	I-e through I-h: An updated fire plan showing the new locations of all facilities and emergency egress should be prepared and sent to the local City fire department station and City and County planning when construction of the new operation's facilities currently under construction have been completed. Emergency egress should be posted for employees and customers. It is recommended that the local City fire department station personnel should visit the site and be given the latest facility plot plan showing access roads and facilities.
		Fire Service - 12.03	County DPW EPD/SCL-LEA County Forester Fire Warden	I-e through I-h: See T-4 above.
	M - 4.1.1 / 7		City Planning, DOGGR	I-e through I-h: The two old oil well steel casings in the area north of the landfill offices located in the CC-4 Part 3 buttress grading area have been re-abandoned. The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site was not re-abandoned. This well was not leaking oil or gas and did not pose a current hazard. It is well beyond the approved landfill limits.
		Re-abandonment Procedures	County Planning, County DPW EPD/SCL-LEA, DOGGR	I-e through I-h: See M - 4.1.1 / 7 above.
	M - 4.2.12 / 26 and 28		City Planning/SCAQMD	I-e through I-h: During the 2nd Quarter, Closure Turf was being maintained and gas and liquids recovery systems under the turf were performing well. In late May, a new small area was covered with turf. The areas covered with Posi-Shell were eliminated. These cover materials were in lieu of vegetation, and controlled and eliminated dust and erosion. In November of 2018, numerous areas of the inactive site and completed buttress slopes were hydroseeded. The perimeter landfill road was improved using recycled concrete and asphalt. Dust was not being generated by use of this road. The main access road was surfaced with recycled aggregate. Two water truck wetted the surface to control any localized wheel dusting. Other roads not surface were not being used.
		Fugitive Dust - 45.F	County DPH/County LEA County DPW-EPD County Biologist	I-e through I-h: See M - 4.2.12 / 28 above.
	M -4.2.13/ 29, 30, 32, 34		City Planning/SCL-LEA/SCAQMD	I-e through I-h: Compliance with these mitigation measures, concerning landfill gas monitoring and odor control and detection, is being monitored by a multi-agency team led by the SCAQMD. Only obvious gas emission sources, odorous operations related to gas and/or gas and landfill liquids, lack of cover, or exposed trash resulting in odor observed during the monitoring visit are reported.
		Amendment 45.N-4.a, 4.c, 4.d	County DPW-EPD	I-e through I-h: See M -4.2.13/ 29, 30, 32, 34 above.
		Amendment 45.N-5	County DPW-EPD	I-e through I-h: See M -4.2.13/ 29, 30, 32, 34 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	M - 4.2.13 / 33		City Planning/SCAQMD	I-e: The monitor drove the Granada Hills neighborhood area from 6:45 to 7:15 a.m. and there were no landfill odors detected. There were strong localized odors detected at 12:00 p.m. on the CC-3A top deck. The gas consultant was repairing a broken leachate transfer pipeline. I-f: The monitor drove the Granada Hills neighborhood areas from 6:15 to 7:00 a.m. and there were no landfill odors detected. A moderate localized landfill gas odor was detected at 10:10 a.m. on the CC-3A top deck near the cactus well. A strong localized liquids odor was detected at 10:30 a.m. coming from tank truck hoses with no caps laying on the ground in the Alder Tank Farm. At 12:00 p.m. there was a moderate localized fresh trash odor at the Old Flare 8 facility site. I-g: The monitor drove the Granada Hills neighborhood area from 6:15 to 7:00 a.m., and there were no landfill odors detected. I-h: The monitor drove the neighborhood and school areas from 6:30 to 7:00 a.m. and at 9:00 to 9:15 a.m. and there were no landfill odors detected. The Cell CC-3A top deck had strong localized gas odors. A gas well was being drilled nearby on the top deck. Strong odors from freshly disposed waste were detected north of the Flare 9, 10, and 11 facilities site. Odors were not traveling south of the landfill. I-e through I-h: The use of Closure Turf to seal fill areas with intermediate cover provided enhanced gas recovery and gas-related odor control.
	M - 4.2.13 / 34		City Planning/SCAQMD	I-e through I-h:
		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-e through I-h: See M-4.2.13/33 and 34 above.
		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-e through I-h: See M-4.2.13/29, 30, 32, 33, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-e through I-h: See M-4.2.13/29, 30, 32, 33, and 34 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager		Surface Water - 2.15	County DPW EPD/ LARWQCB, SCL- LEA	I-e through I-h: A preventative maintenance program with inspection of facility equipment, systems, and storm water management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater should be performed on a monthly basis, with a summary report issued on a quarterly basis. These reports should be available for agency and monitor review. The high-flow spillway for Basin D into the westside drainage has cracks and spalling that should be repaired. The riser that discharges into the eastside channel does not have top guards to restrict unauthorized access. The Basin B high-flow outlet spillway was cracked in multiple places. The terminal basin has vegetation growing in the interior concrete sidewalls. I-e: The slopes in CC-4 Part 1/Part 2 were graded to repair rain storm erosion. The HDPE downcomer was repaired. The alluvial water had a minor amount of seepage into the terminal basin through the basin floor. The alluvial water cutoff wall pumps were not working properly. Sediment was piled and some removed from the terminal basin's inlet area. The area east of the gabion wall had standing water at the top of the outlet risers. A sump pump was being used to drain the basin. The skimmer system was not operational. The main access road sloughed slope area near the terminal basin's inlet was graded and had jute netting and straw wattles installed. Basin A was full of water. A significant amount of sediment was in the basin. Water was being pumped and used for construction dust control There was no discharge channel. Basin B was dry with minimal sediment. I-f: A significant amount of sediment was observed in the eastside channel behind velocity humps and gabions. The terminal basin has alluvial iron oxide red colored water seeping into the basin through seams in the concrete floor. Standing water covered 50% of the area east of the gabion wall. Deep wet sediment (8' to 10' deep) covered most of the basin. Water being discharged was free of sediment but was iron oxide colored. Basin A had some standing water near the outlet risers. There was a significant amount of wet sediment in the basin. Basin B was dry, with minimal sediment on the basin's floor. There were two areas of soil sloughing into the basin from native hillsides that needed to be trucked away. I-g: The eastside drainage channel had significant sediment behind each velocity humps and gabions. The terminal basin was full of water from the gabion wall to the outlet riser. No water was being discharged. Sediment was wet and not being removed. Concrete V-ditches were installed on the area graded for the CC-4 Part 3 buttress from the area below Flare 3 to Basin A. An access road to Flare 3 was being graded. Basin A was filled with water. No water was being discharged. Basin B was dry. Sediment and sloughed hillside soil had not been removed. County top deck had minor areas of ponding water. I-h: The eastside drainage channel had sediment piles behind the rock gabions and asphalt humps. Sediment was moved into piles in the terminal basin to dry. A skip loader was being serviced in the basin and did not have secondary containment. The water level from the gabion wall to the outlet risers was approximately 6" below the top of the outlet. Minimal water was being discharged. The skimmer system was not operating. The underdrains seep water was stopped at the CC-3B leachate recovery area. Basin A was full of wet sediment with standing water in 1/3 of the basin near the risers. Basin B was dry with minimal sediment and some sloughed hillside soil.
	M - 4.4.2/ 69		City Planning	I-e through I-h: The City is proceeding with an ordinance to allow the wetlands and riparian mitigation to be created in the Chatsworth Reservoir. All environmental analysis has been completed. Republic stated that a change in City staffing has delayed the process. Time extension letters from the US Corps of Engineers and the California Fish and Game are pending.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager		Biota - 4.4.3	CDFW	I-e through I-h: See M - 4.4.2 / 69 above.
	M - 4.9.3 / 110		City Planning/City LEA	I-e: The monitor drove San Fernando Road to Sierra Highway. A piece of fiberboard and some dumped waste was observed north of the I-14 overpass on Sierra Highway. South of the overpass was an abandoned, burnt-out motorhome. I-f: The monitor drove San Fernando Road to Sierra Highway. Sierra Highway was free of debris and trash. The abandoned motorhome south of the I-14 overpass had not been removed. The monitor drove San Fernando Road south to the I-5 overpass. An abandoned boat and trailer was observed under the I-5 overpass on San Fernando Road. Illegally dumped wood waste, trash, and dirt was observed in the same area. This area is outside of Republic's clean-up area. The City was notified of the illegal dumping. I-g: The monitor drove San Fernando Road to Sierra Highway. The area was free of debris and trash. An abandoned motorhome was still on the Sierra Highway shoulder. The monitor drove to the I-5 overpass. New dumping of trash, debris, and dirt was observed. The City 311 was notified by Republic.
Civil and Geotechnical Engineer	M - 4.1.1 / 2		City Building and Safety City Planning	I-e through I-h: See M - 4.1.1 / 5 below.

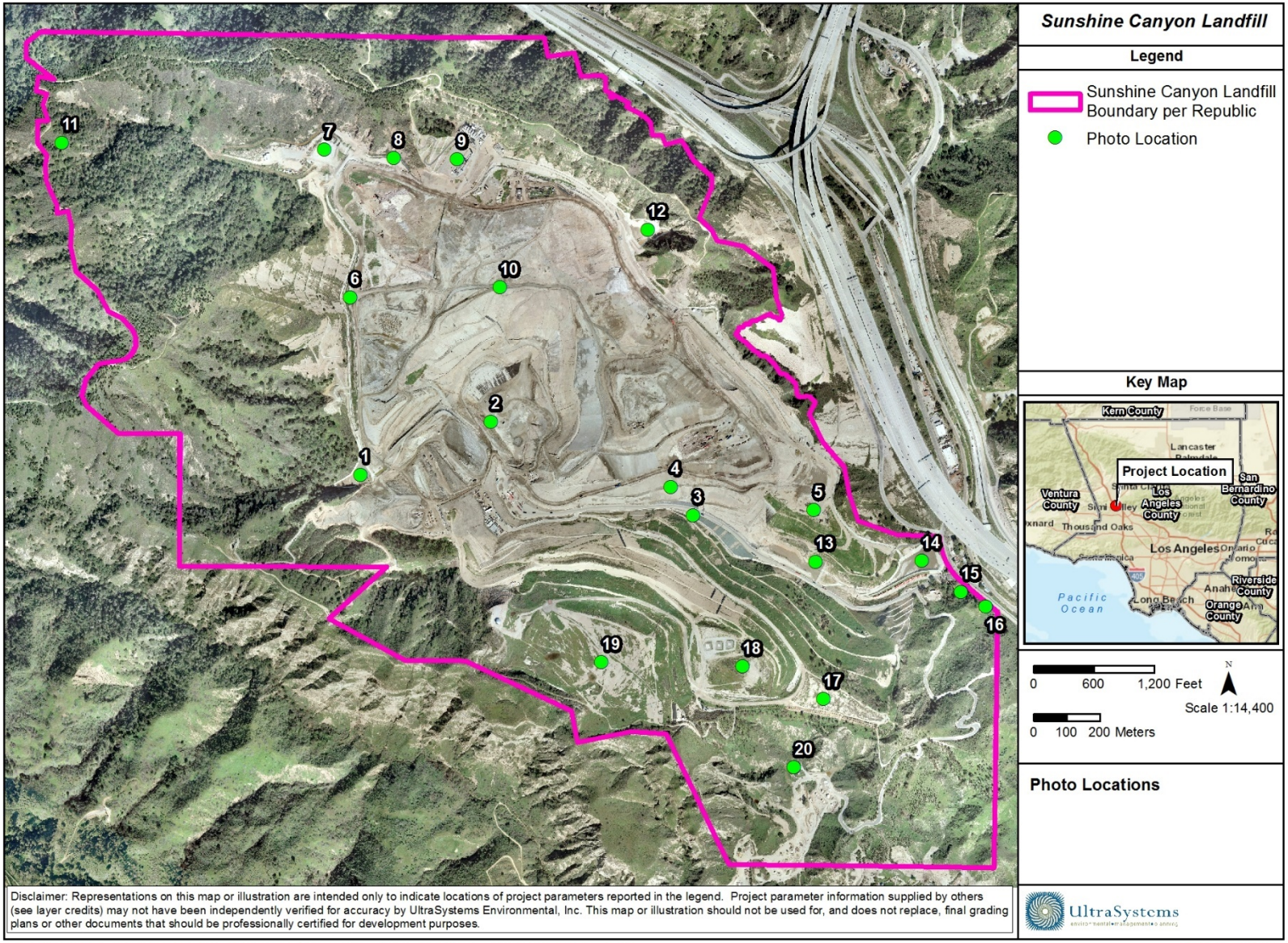
Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Civil and Geotechnical Engineer	M - 4.1.1 / 4		City Planning/LARWQCB Cal Recycle	I-e through I-h: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-e through I-h: The only out-of-approved landfill footprint grading occurring in the 2nd Quarter was related to the approved CC-4 Part 3 buttress and related drainage systems. The only other grading occurring was for development of Cell CC-4 Part 3, removal of stockpiled soils for cover, and grooming of slopes. These activities are inside the approved landfill footprint.
		Geology - 1.07	County DPW EPD/ County LEA	I-e through I-h: See M - 4.1.1 / 5 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-e through I-h: See M - 4.1.1 / 5 above.
	M - 4.1.6 / 18			I-e through I-h: The landfill perimeter boundary survey PVC marker pipes have been removed in areas where Edison pole grading took place, near the Flare 11 site pad grading and near the CC-4 Part 3 buttress. These boundary markers have not been replaced. All markers should be replaced once the Cell CC-4 Part 3 buttress is completed.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADBS City LEA	I-e through I-h: Access roads were being maintained around the working area for emergency access.
	M - 4.18 / 178		City Planning/City LEA	I-e through I-h: A map showing areas that are at the final elevations and which should have final cover should be available for review. Documents showing current filled elevations should also be available onsite for review. These conditions were not monitored.
		Visual - 10.01 Visual - 10.02	County DPW EPD/ LARWQCB SCL-LEA	I-e through I-h: See M - 4.18 / 178 above.
Hydrologist	M - 4.3.1/ 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-e and I-h: Surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas, and most conveyance V-ditches were unlined. Jute netting and straw wattles have performed well during last year's heavy rain events, with only moderate erosion occurring. The only area that had erosion from rain events was in the CC-4 Part 3 buttress area due to active grading that was occurring and the County sage mitigation area's bare and unprotected slopes.
		Surface Water - 2.03 Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-e through I-h: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-e through I-h: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-e through I-h: See M - 4.3.1/ 37, 38 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Hydrologist	M - 4.3.1 / 43		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-e: The slopes in CC-4 Part 1/Part 2 were graded to repair rain storm erosion. The HDPE downcomer was repaired. The alluvial water had a minor amount of seepage into the terminal basin through the basin floor. The alluvial water cutoff wall pumps were not working properly. Sediment was piled and some removed from the terminal basin's inlet area. The area east of the gabion wall had standing water at the top of the outlet risers. A sump pump was being used to drain the basin. The skimmer system was not operational. The main access road sloughed slope area near the terminal basin's inlet was graded and had jute netting and straw wattles installed. Basin A was full of water. A significant amount of sediment was in the basin. Water was being pumped and used for construction dust control There was no discharge channel. Basin B was dry with minimal sediment. I-f: A significant amount of sediment was observed in the eastside channel behind velocity humps and gabions. The terminal basin has alluvial iron oxide red colored water seeping into the basin through seams in the concrete floor. Standing water covered 50% of the area east of the gabion wall. Deep wet sediment (8' to 10' deep) covered most of the basin. Water being discharged was free of sediment but was iron oxide colored. Basin A had some standing water near the outlet risers. There was a significant amount of wet sediment in the basin. Basin B was dry, with minimal sediment on the basin's floor. There were two areas of soil sloughing into the basin from native hillsides that needed to be trucked away. I-g: The eastside drainage channel had significant sediment behind each velocity humps and gabions. The terminal basin was full of water from the gabion wall to the outlet riser. No water was being discharged. Sediment was wet and not being removed. Concrete V-ditches were installed on the area graded for the CC-4 Part 3 buttress from the area below Flare 3 to Basin A. An access road to Flare 3 was being graded. Basin A was filled with water. No water was being discharged. Basin B was dry. Sediment and sloughed hillside soil had not been removed. County top deck had minor areas of ponding water. I-h: The eastside drainage channel had sediment piles behind the rock gabions and asphalt humps. Sediment was moved into piles in the terminal basin to dry. A skip loader was being serviced in the basin and did not have secondary containment. The water level from the gabion wall to the outlet risers was approximately 6" below the top of the outlet. Minimal water was being discharged. The skimmer system was not operating. The underdrains seep water was stopped at the CC-3B leachate recovery area. Basin A was full of wet sediment with standing water in 1/3 of the basin near the risers. Basin B was dry with minimal sediment and some sloughed hillside soil.
		Surface Water - 2.10	LARWQCB / County DPW EPD	I-e through I-h: See M - 4.3.1/ 37, 38 and 43 above.
		Surface Water - 2.14	LARWQCB / County DPW EPD	I-e through I-h: See M - 4.3.1 / 37, 38 and 43 above. The current erosion control plans should be available for agency and monitor review.
	M - 4.3.1/ 46		City Planning/ LARWQCB CalRecycle PW-BOE	I-e through I-h: See 2.15 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Biologist	M - 4.3.2 / 50		City Planning/ LARWQCB CalRecycle SCL-LEA	I-e through I-h: The Old City North top deck has a tank farm of 16 Alder storage tanks for processing recovered leachate and condensate, with a double wall pipeline to the sewer connect at the entrance near San Fernando Road. This system operated with no odor detected at the tank farm or sewer connection. Tank farm liquids were being treated with hydrogen peroxide.
	M - 4.1.1 / 6		City Planning/ LARWQCB CalRecycle SCL-LEA LADBS	I-e through I-h: See M - 4.2.12 / 28 above.
		Geology - 1.14	LARWQCB/ County Forester	I-e through I-h: See M - 4.2.12 / 28 above.
	M - 4.2.11 / 23		City Planning	I-e through I-h: See M - 4.2.12 / 28 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-e through I-h: See M - 4.2.12 / 28 above.
	M - 4.2.12		SCL-LEA/ City Planning	I-e through I-h: See M - 4.2.12 / 28 above.
		Revegetation - 44.A	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-e through I-h: See M - 4.2.12 / 28 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-e through I-h: See M - 4.2.12 / 28 above.
		Biota - 4.42	SCL-LEA	I-e through I-h: See M - 4.2.12 / 28 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-e through I-h: See M - 4.2.12 / 28 above.
		Visual - 10.08	County Forester	I-e through I-h: See M - 4.2.12 / 28 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Biologist	M - 4.4.1 / 60		City Planning	I-e: The County sage mitigation area was growing and filling in within the areas that previously had spotty native sage community. There are bare areas where there are deep erosion rills. City Deck B sage mitigation planted and seeded areas were growing and doing well. The existing native areas were filling in and growing. All areas were being maintained. City Deck C sage mitigation area was doing well. There was some mustard that needed to be removed. I-f: Deck B sage mitigation plants are well established and existing native plants have flourished due to the winter rains. Deck C sage mitigation area is doing well. Sage and other native plants are growing in the saltbush understory. Mustard needs to be removed in this area and under the PM10 trees. I-g: Deck B sage mitigation is growing and filling in. Mustard is not a problem in this area. Deck C sage mitigation was doing well. Mustard has grown and spread. Removal needs to be done. I-h: The County sage mitigation area had filled in with native plants due to the winter rains. One section has deep rills and needs benching and straw wattles. City Deck B sage mitigation area was doing well and was maintained. City Deck C sage mitigation area was doing well. Removal of mustard in and adjacent to this area had not been done.
		Biota - 4.27	County LEA/CDFW	I-e through I-h: See M - 4.4.1 / 60 above.
		Biota - 4.10	County LEA/CDFW	I-e through I-h: An updated mitigation tree report was completed, showing the number and type of mitigation trees required to be planted. A schedule for planting has not been prepared.
	M - 4.4.3 / 72		City Planning	I-e through I-h: See Biota - 4.10 above.
	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-e through I-h: See T-4 above.
	M-4.9.4/ 125		City Planning/ CalRecycle Cal OSHA SCL-LEA	I-e through I-h: Throughout the 2nd Quarter of 2019, the south oil field gate and north perimeter gate were observed to be locked.
Paleontologist	M-4.19.2/ 191		City Planning	I-e through I-h: The paleontologist was monitoring grading activities in and adjacent to Cell CC-4 Part 3 buttress when grading occurred in native, undisturbed areas.
		Ecological Significance 62	County Planning	I-e through I-h: See M-4.19.2/ 191 above.

Appendix II
Relevant Site Photos



Path: J:\Projects\5800_Sunshine_Canyon\MXDs\PhotoLocations\5800_Sunshine_Canyon_PhotoLocations_2017_Quarterly_Report_#3.mxd
Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community; CAL FIRE, 2007; Republic, March 2017; LA County Assessor, 2016-2017

November 13, 2017

Photo Location Map Key

Map Location	Title	Photo Number
1	Basin A	1 – 20
2	Working Areas, CC4 Part 1, Part 2 and Part 3, and Buttress Area	21 – 102
3	Closure Turf and Posi-Shell	103 – 124
4	CC-3A and CC-3B	125 – 137
5	Old City North and South	138 – 156
6	County Sage Mitigation and Westside Drainage Channel	157 – 172
7 & 8	Basin D, Basin D Outlet Channel	–
9	Flares 9, 10, 11 and Gas-to-Energy Facility	–
10	County Top Deck	173 – 198
11	Big Cone Fir Mitigation	199 – 201
12	Basin B	202 – 217
13	Eastside Drainage Channel and Terminal Basin Inlets	218 – 230
14	Terminal Basin	231 – 279
15	Sewer Lift Station and Graywater Facility	–
16	Retaining Wall at San Fernando Road	–
17, 18 & 19	City Decks A, B and C Sage Mitigation Areas	280 – 327
20	Southern Ownership Buffer	328 – 329
–	General Site	330 – 346

Photo 1: Basin A: April 11, 2019

Photo 2: Basin A: April 11, 2019

Photo 3: Basin A: April 11, 2019

Photo 4: Basin A: April 11, 2019

Photo 5: Basin A: April 11, 2019

Photo 6: Basin A: April 11, 2019

Photo 7: Basin A: May 7, 2019

Photo 8: Basin A: May 7, 2019

Photo 9: Basin A: May 7, 2019

Photo 10: Basin A: May 7, 2019

Photo 11: Basin A: May 7, 2019

Photo 12: Basin A: May 28, 2019

Photo 13: Basin A: May 28, 2019

Photo 14: Basin A: May 28, 2019

Photo 15: Basin A: June 19, 2019

Photo 16: Basin A: June 19, 2019

Photo 17: Basin A: June 19, 2019

Photo 18: April 11, 2019

Photo 19: April 11, 2019

Photo 20: Basin A: April 11, 2019

Photo 21: CC4 Parts 1 & 2: April 11, 2019

Photo 22: CC4 Parts 3 Buttress Construction Area: April 11, 2019

Photo 23: CC4 Parts 3 Buttress Construction Area: April 11, 2019

Photo 24: CC4 Parts 3 Cell Construction: April 11, 2019

Photo 25: CC4 Parts 3 Cell Construction: April 11, 2019

Photo 26: CC4 Parts 3 Cell Construction: April 11, 2019

Photo 27: CC4 Parts 3 Cell Construction: April 11, 2019

Photo 28: CC4 Parts 1 & 2: April 11, 2019

Photo 29: CC4 Parts 1 & 2: April 11, 2019

Photo 30: CC4 Parts 1 & 2: April 11, 2019

Photo 31: CC4 Parts 1 & 2: April 11, 2019

Photo 32: CC4 Parts 1 & 2: April 11, 2019

Photo 33: CC4 Parts 1 & 2: April 11, 2019

Photo 34: CC4 Parts 1 & 2: April 11, 2019

Photo 35: CC4 Parts 1 & 2: April 11, 2019

Photo 36: CC4 Parts 1 & 2: April 11, 2019

Photo 37: CC4 Parts 1 & 2: April 11, 2019

Photo 38: CC4 Parts 1 & 2: April 11, 2019

Photo 39: CC4 Parts 1 & 2: April 11, 2019

Photo 40: CC4 Parts 1 & 2: April 11, 2019

Photo 41: CC4 Parts 1 & 2: April 11, 2019

Photo 42: CC4 Parts 1 & 2: April 11, 2019

Photo 43: CC4 Parts 1 & 2: April 11, 2019

Photo 44: CC4 Parts 1 & 2: April 11, 2019

Photo 45: CC4 Parts 1 & 2: April 11, 2019

Photo 46: CC4 Parts 1 & 2: April 11, 2019

Photo 47: CC4 Parts 1 & 2: April 11, 2019

Photo 48: CC4 Parts 1 & 2: April 11, 2019

Photo 49: CC4 Part 1 & 2: May 7, 2019

Photo 50: CC4 Part 1 & 2: May 7, 2019

Photo 51: CC4 Part 1 & 2: May 7, 2019

Photo 52: CC4 Part 1 & 2: May 7, 2019

Photo 53: CC4 Part 1 & 2: May 7, 2019

Photo 54: CC4 Part 3 Cell Construction: May 7, 2019

Photo 55: CC4 Part 3 Cell Construction: May 7, 2019

Photo 56: CC4 Part 3 Cell Construction: May 7, 2019

Photo 57: CC4 Part 3 Cell Construction: May 7, 2019

Photo 58: CC4 Part 1 & 2: May 7, 2019

Photo 59: CC4 Part 1 & 2: May 7, 2019

Photo 60: CC4 Part 1 & 2: May 7, 2019

Photo 61: CC4 Part 1 & 2: May 7, 2019

Photo 62: CC4 Part 1 & 2: May 7, 2019

Photo 63: CC4 Part 1 & 2: May 7, 2019

Photo 64: CC4 Part 1 & 2: May 7, 2019

Photo 65: CC4 Part 1 & 2: May 7, 2019

Photo 66: CC4 Part 1 & 2: May 7, 2019

Photo 67: CC4 Part 1 & 2: May 7, 2019

Photo 68: CC4 Part 1 & 2: May 28, 2019

Photo 69: CC4 Part 1 & 2: May 28, 2019

Photo 70: CC4 Part 3 Buttress Area: May 28, 2019

Photo 71: CC4 Part 3 Buttress Area: May 28, 2019

Photo 72: CC4 Part 3 Buttress Area: May 28, 2019

Photo 73: CC4 Part 3 Buttress Area: May 28, 2019

Photo 74: CC4 Part 3 Buttress Area: May 28, 2019

Photo 75: CC4 Part 3 Buttress Area: May 28, 2019

Photo 76: CC4 Part 3 Buttress Area: May 28, 2019

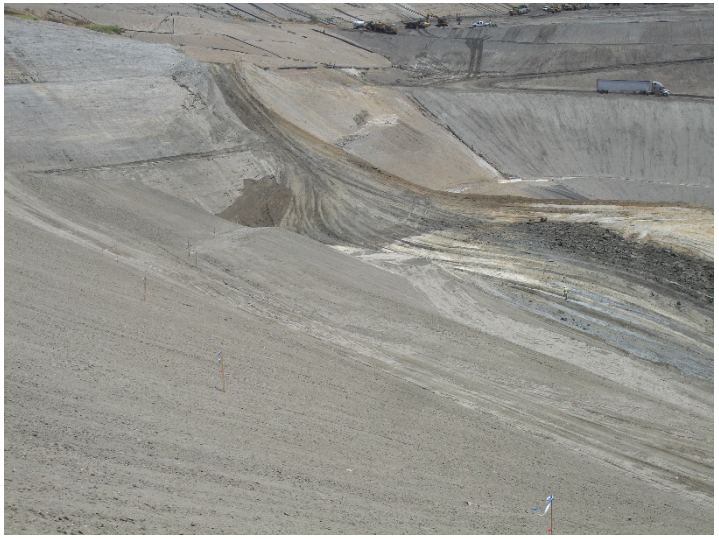


Photo 77: CC4 Part 3 Buttress Area: May 28, 2019

Photo 78: CC4 Part 3 Cell Construction: May 28, 2019

Photo 79: CC4 Part 3 Cell Construction: May 28, 2019

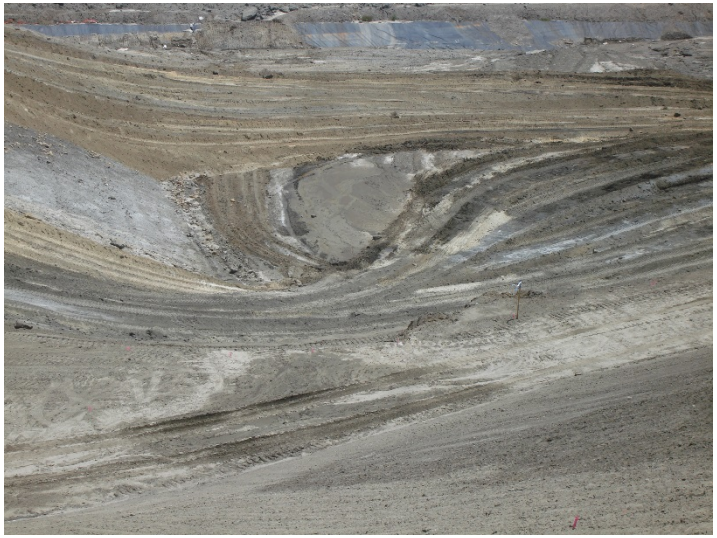


Photo 80: CC4 Part 3 Cell Construction: May 28, 2019

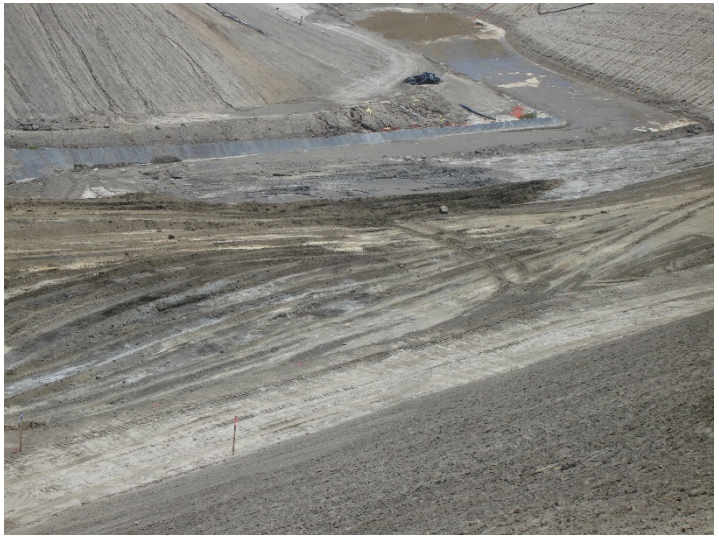


Photo 81: CC4 Part 3 Cell Construction: May 28, 2019

Photo 82: CC4 Part 3 Cell Construction: May 28, 2019

Photo 83: CC4 Part 3 Cell Construction: May 28, 2019

Photo 84: CC4 Part 1 & 2: May 28, 2019

Photo 85: CC4 Part 1 & 2: May 28, 2019

Photo 86: CC4 Part 1 & 2: May 28, 2019

Photo 87: CC4 Part 1 & 2: May 28, 2019

Photo 88: CC4 Part 1 & 2: May 28, 2019

Photo 89: CC4 Part 1 & 2: May 28, 2019

Photo 90: CC4 Part 1 & 2: June 19, 2019

Photo 91: CC4 Part 1 & 2: June 19, 2019

Photo 92: CC4 Part 1 & 2: June 19, 2019

Photo 93: CC4 Part 1 & 2: June 19, 2019

Photo 94: CC4 Part 3 Cell Construction: June 19, 2019

Photo 95: CC4 Part 3 Cell Construction: June 19, 2019

Photo 96: CC4 Part 3 Cell Construction: June 19, 2019

Photo 97: CC4 Part 3 Cell Construction: June 19, 2019

Photo 98: CC4 Part 3 Cell Construction: June 19, 2019

Photo 99: CC4 Part 3 Cell Construction: June 19, 2019

Photo 100: CC4 Part 1 & 2: June 19, 2019

Photo 101: CC4 Part 1 & 2: June 19, 2019

Photo 102: CC4 Part 1 & 2: June 19, 2019

Photo 103: Closure Turf: April 11, 2019

Photo 104: Closure Turf: April 11, 2019

Photo 105: Closure Turf: April 11, 2019

Photo 106: Closure Turf: April 11, 2019

Photo 107: Closure Turf: April 11, 2019

Photo 108: Closure Turf: April 11, 2019

Photo 109: Closure Turf: April 11, 2019

Photo 110: Closure Turf: April 11, 2019

Photo 111: Closure Turf: April 11, 2019

Photo 112: Closure Turf: April 11, 2019

Photo 113: Closure Turf: May 7, 2019

Photo 114: Closure Turf: May 7, 2019

Photo 115: Closure Turf: May 7, 2019

Photo 116: Closure Turf: May 7, 2019

Photo 117: Closure Turf: May 7, 2019

Photo 118: Closure Turf: May 28, 2019

Photo 119: Closure Turf: May 28, 2019

Photo 120: Closure Turf: June 19, 2019

Photo 121: Closure Turf: June 19, 2019

Photo 122: Closure Turf: June 19, 2019

Photo 123: Closure Turf: June 19, 2019

Photo 124: Closure Turf: June 19, 2019

Photo 125: CC3B Slope: May 28, 2019

Photo 126: CC3B Slope: May 28, 2019

Photo 127: CC3B Slope: May 28, 2019

Photo 128: CC3B Top Deck: June 19, 2019

Photo 129: CC3B Top Deck: June 19, 2019

Photo 130: CC3B Top Deck: June 19, 2019

Photo 131: CC3B Top Deck: June 19, 2019

Photo 132: CC3B Top Deck: June 19, 2019

Photo 133: CC3B and CC3A Slopes: June 19, 2019

Photo 134: CC3B and CC3A Slopes: June 19, 2019

Photo 135: CC3B East Leachate Low Point Removal: June 19, 2019

Photo 136: CC3B East Leachate Low Point Removal: June 19, 2019

Photo 137: CC3B East Leachate Low Point Removal: June 19, 2019

Photo 138: Old City South Stockpiled Soil Slump: May 7, 2019

Photo 139: Old City South Stockpiled Soil Slump: May 7, 2019

Photo 140: Old City North Alder Tank Farm Leachate and Condensation Treatment: May 7, 2019

Photo 141: Old City North Alder Tank Farm Leachate and Condensation Treatment: May 7, 2019

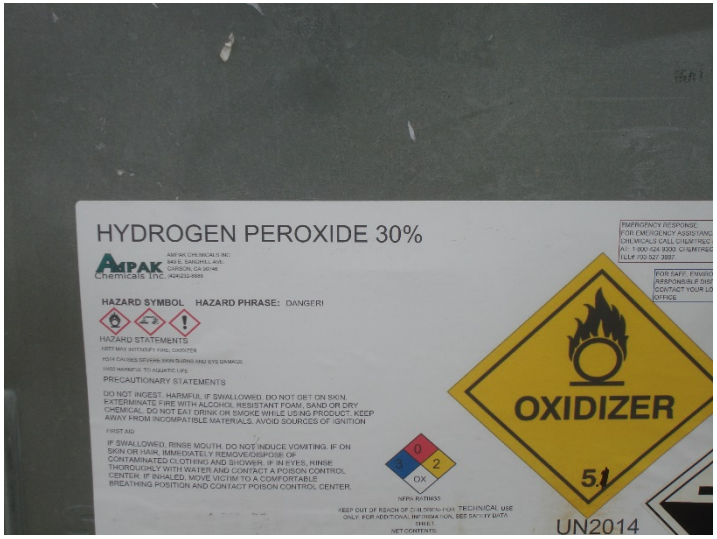


Photo 142: Old City North Alder Tank Farm Leachate and Condensation Treatment: May 7, 2019

Photo 143: Old City South Landfill: May 28, 2019

Photo 144: Old City South Landfill: May 28, 2019

Photo 145: Old City South Landfill: May 28, 2019

Photo 146: Old City South Landfill: May 28, 2019

Photo 147: Old City South Landfill: May 28, 2019

Photo 148: Old City South Landfill: May 28, 2019

Photo 149: Old City South Stockpiled Soil Slump: June 19, 2019

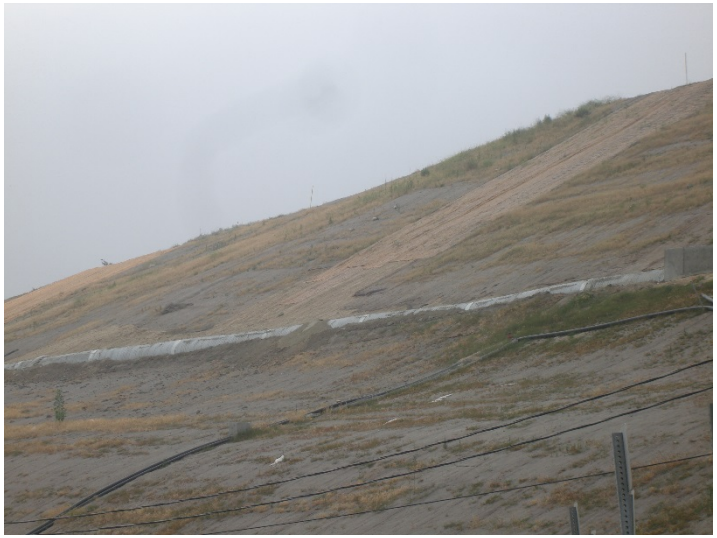


Photo 150: Old City South Stockpiled Soil Slump: June 19, 2019

Photo 151: Old City North Alder Tank Farm Leachate and Condensation Treatment: June 19, 2019

Photo 152: Old City North Top Deck: June 19, 2019

Photo 153: Old City North Top Deck: June 19, 2019

Photo 154: Old City North Top Deck: June 19, 2019

Photo 155: Old City North Top Deck: June 19, 2019

Photo 156: Old City North Top Deck: June 19, 2019

Photo 157: New Westside Drainage Channel: April 11, 2019

Photo 158: New Westside Drainage Channel: April 11, 2019

Photo 159: New Westside Drainage Channel: April 11, 2019

Photo 160: New Westside Drainage Channel: April 11, 2019

Photo 161: New Westside Drainage Channel: April 11, 2019

Photo 162: New Westside Drainage Channel: April 11, 2019

Photo 163: New Westside Drainage Channel: April 11, 2019

Photo 164: County Sage Mitigation Area Slope: April 11, 2019

Photo 165: County Sage Mitigation Area Slope: April 11, 2019

Photo 166: County Sage Mitigation Area Slope: April 11, 2019

Photo 167: County Sage Mitigation Area Slope: April 11, 2019

Photo 168: County Sage Mitigation Area Slope: April 11, 2019

Photo 169: County Sage Mitigation Area Slope: May 7, 2019

Photo 170: County Sage Mitigation Area Slope: May 7, 2019

Photo 171: County Sage Mitigation Area Slope: May 7, 2019

Photo 172: County Sage Mitigation Area Slope: May 7, 2019

Photo 173: Top Deck Gas Well: May 7, 2019

Photo 174: County Top Deck: April 11, 2019

Photo 175: County Top Deck: April 11, 2019

Photo 176: County Top Deck: April 11, 2019

Photo 177: County Top Deck: April 11, 2019

Photo 178: County Top Deck: April 11, 2019

Photo 179: County Top Deck: April 11, 2019

Photo 180: County Top Deck: April 11, 2019

Photo 181: County Top Deck: April 11, 2019

Photo 182: County Top Deck: April 11, 2019

Photo 183: County Top Deck: April 11, 2019

Photo 184: County Top Deck: April 11, 2019

Photo 185: County Top Deck: April 11, 2019

Photo 186: County Top Deck: April 11, 2019

Photo 187: County Top Deck: April 11, 2019

Photo 188: County Top Deck: April 11, 2019

Photo 189: County Top Deck: June 19, 2019

Photo 190: County Top Deck: June 19, 2019

Photo 191: County Top Deck: June 19, 2019

Photo 192: County Top Deck: June 19, 2019

Photo 193: County Top Deck: June 19, 2019

Photo 194: County Top Deck: June 19, 2019

Photo 195: County Top Deck: June 19, 2019

Photo 196: County Top Deck: June 19, 2019

Photo 197: County Top Deck: June 19, 2019

Photo 198: County Top Deck: June 19, 2019

Photo 199: Big Cone Mitigation Area: June 19, 2019

Photo 200: Big Cone Mitigation Area: June 19, 2019

Photo 201: Big Cone Mitigation Area: June 19, 2019

Photo 202: Basin B: April 11, 2019

Photo 203: Basin B: April 11, 2019

Photo 204: Basin B: April 11, 2019

Photo 205: Basin B: April 11, 2019

Photo 206: Basin B: April 11, 2019

Photo 207: Basin B: April 11, 2019

Photo 208: Basin B: May 7, 2019

Photo 209: Basin B: May 7, 2019

Photo 210: Basin B: May 7, 2019

Photo 211: Basin B: May 7, 2019

Photo 212: Basin B: May 7, 2019

Photo 213: Basin B: May 7, 2019

Photo 214: Basin B: May 28, 2019

Photo 215: Basin B: May 28, 2019

Photo 216: Basin B: May 28, 2019

Photo 217: Basin B: May 28, 2019

Photo 218: Terminal Basin Westside Drainage Channel Inlet: April 11, 2019

Photo 219: Eastside Drainage Channel: May 7, 2019

Photo 220: Eastside Drainage Channel: May 7, 2019

Photo 221: Eastside Drainage Channel: May 7, 2019

Photo 222: Eastside Drainage Channel: May 7, 2019

Photo 223: Eastside Drainage Channel: May 7, 2019

Photo 224: Eastside Drainage Channel: May 7, 2019

Photo 225: Eastside Drainage Channel: May 28, 2019

Photo 226: Eastside Drainage Channel: May 28, 2019

Photo 227: Eastside Drainage Channel: June 19, 2019

Photo 228: Eastside Drainage Channel: June 19, 2019

Photo 229: Eastside Drainage Channel: June 19, 2019

Photo 230: Eastside Drainage Channel: June 19, 2019

Photo 231: Terminal Basin: April 11, 2019

Photo 232: Terminal Basin: April 11, 2019

Photo 233: Terminal Basin: April 11, 2019

Photo 234: Terminal Basin: April 11, 2019

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Photo 236: Terminal Basin: April 11, 2019

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Photo 239: Terminal Basin: April 11, 2019

Photo 240: Terminal Basin: April 11, 2019

Photo 241: Terminal Basin: April 11, 2019

Photo 242: Terminal Basin: April 11, 2019

Photo 243: Terminal Basin: April 11, 2019

Photo 244: Terminal Basin Outlet: April 11, 2019

Photo 245: Terminal Basin: May 7, 2019

Photo 246: Terminal Basin: May 7, 2019

Photo 247: Terminal Basin: May 7, 2019

Photo 248: Terminal Basin: May 7, 2019

Photo 249: Terminal Basin: May 7, 2019

Photo 250: Terminal Basin: May 7, 2019

Photo 251: Terminal Basin: May 7, 2019

Photo 252: Terminal Basin: May 7, 2019

Photo 253: Terminal Basin Outlet: May 7, 2019

Photo 254: Terminal Basin Outlet: May 7, 2019

Photo 255: Terminal Basin Outlet: May 7, 2019

Photo 256: Terminal Basin Outlet: May 7, 2019

Photo 257: Terminal Basin: May 7, 2019

Photo 258: Terminal Basin: May 7, 2019

Photo 259: Terminal Basin: May 7, 2019

Photo 260: Terminal Basin: May 7, 2019

Photo 261: Terminal Basin: May 28, 2019

Photo 262: Terminal Basin: May 28, 2019

Photo 263: Terminal Basin: May 28, 2019

Photo 264: Terminal Basin: May 28, 2019

Photo 265: Terminal Basin: May 28, 2019

Photo 266: Terminal Basin: May 28, 2019

Photo 267: Terminal Basin: May 28, 2019

Photo 268: Terminal Basin: May 28, 2019

Photo 269: Terminal Basin: May 28, 2019

Photo 270: Terminal Basin Westside Drainage Channel Inlet: January 22, 2019

Photo 271: Terminal Basin: June 19, 2019

Photo 272: Terminal Basin: June 19, 2019

Photo 273: Terminal Basin: June 19, 2019

Photo 274: Terminal Basin: June 19, 2019

Photo 275: Terminal Basin: June 19, 2019

Photo 276: Terminal Basin: June 19, 2019

Photo 277: Terminal Basin: June 19, 2019

Photo 278: Terminal Basin Outlet: June 19, 2019

Photo 279: Terminal Basin Outlet: June 19, 2019

Photo 280: City Decks B Sage Mitigation Area: April 11, 2019

Photo 281: City Decks B Sage Mitigation Area: April 11, 2019

Photo 282: City Decks B Sage Mitigation Area: April 11, 2019

Photo 283: City Decks B Sage Mitigation Area: April 11, 2019

Photo 284: City Decks B Sage Mitigation Area: April 11, 2019

Photo 285: City Decks B Sage Mitigation Area: April 11, 2019

Photo 286: City Decks B Sage Mitigation Area: April 11, 2019

Photo 287: City Decks B Sage Mitigation Area: April 11, 2019

Photo 288: City Decks B Sage Mitigation Area: April 11, 2019

Photo 289: City Decks B Sage Mitigation Area: April 11, 2019

Photo 290: City Decks B Sage Mitigation Area: April 11, 2019

Photo 291: City Decks B Sage Mitigation Area: April 11, 2019

Photo 292: City Decks B Sage Mitigation Area: April 11, 2019

Photo 293: City Decks B Sage Mitigation Area: April 11, 2019

Photo 294: City Decks B Sage Mitigation Area: April 11, 2019

Photo 295: City Decks B Sage Mitigation Area: April 11, 2019

Photo 296: City Decks B Sage Mitigation Area: April 11, 2019

Photo 297: City Decks B Sage Mitigation Area: April 11, 2019

Photo 298: City Decks B Sage Mitigation Area: April 11, 2019

Photo 299: City Decks B Sage Mitigation Area: April 11, 2019

Photo 300: City Decks B Sage Mitigation Area: April 11, 2019

Photo 301: City Decks B Sage Mitigation Area: April 11, 2019

Photo 302: City Decks B Sage Mitigation Area: April 11, 2019

Photo 303: City Decks B Sage Mitigation Area: April 11, 2019

Photo 304: City Decks B Sage Mitigation Area: April 11, 2019

Photo 305: City Decks B Sage Mitigation Area: April 11, 2019

Photo 306: City Decks B Sage Mitigation Area: April 11, 2019

Photo 307: City Decks B Sage Mitigation Area: April 11, 2019

Photo 308: Deck C Sage Mitigation Area & PM 10 Tree Areas: May 7, 2019

Photo 309: Deck B Sage Mitigation Area: May 7, 2019

Photo 310: Deck B Sage Mitigation Area: May 7, 2019

Photo 311: Deck B Sage Mitigation Area: May 7, 2019

Photo 312: Deck B Sage Mitigation Area: May 7, 2019

Photo 313: Deck B Sage Mitigation Area: May 7, 2019

Photo 314: Deck B Sage Mitigation Area: May 28, 2019

Photo 315: Deck B Sage Mitigation Area: May 28, 2019

Photo 316: Deck B Sage Mitigation Area: May 28, 2019

Photo 317: Deck B Sage Mitigation Area: May 28, 2019

Photo 318: Deck B Sage Mitigation Area: May 28, 2019

Photo 319: Deck B Sage Mitigation Area: May 28, 2019

Photo 320: Deck B Sage Mitigation Area: May 28, 2019

Photo 321: Deck B Sage Mitigation Area: May 28, 2019

Photo 322: Deck B Sage Mitigation Area: May 28, 2019

Photo 323: Deck B Sage Mitigation Area: June 19, 2019

Photo 324: Deck B Sage Mitigation Area: June 19, 2019

Photo 325: Deck B Sage Mitigation Area: June 19, 2019

Photo 326: Deck B Sage Mitigation Area: June 19, 2019

Photo 327: Deck B Sage Mitigation Area: June 19, 2019

Photo 328: South Buffer Oil Field: May 28, 2019

Photo 329: South Buffer Oil Field: May 28, 2019

Photo 330: Main Access Road Slopes Near Terminal Basin: April 11, 2019

Photo 331: Main Access Road Slopes Near Terminal Basin: April 11, 2019

Photo 332: Main Access Road Slopes Near Terminal Basin: April 11, 2019

Photo 333: Main Access Road Slopes Near Terminal Basin: April 11, 2019

Photo 334: Debris on Sierra Highway near I-14 Overpass: April 11, 2019

Photo 335: Abandoned Motorhome on Sierra Highway near I-14 Overpass: April 11, 2019

Photo 336: Abandoned Motorhome on Sierra Highway near I-14 Overpass: May 7, 2019

Photo 337: Abandoned Motorhome on Sierra Highway near I-14 Overpass: May 7, 2019

Photo 338: Abandoned Boat on San Fernando Road under 1-5 Overpass: May 7, 2019

Photo 339: Abandoned Boat on San Fernando Road under 1-5 Overpass: May 7, 2019

Photo 340: Debris on San Fernando Road under I-5 Overpass: May 7, 2019

Photo 341: Site: June 19, 2019

Photo 342: Site: June 19, 2019

Photo 343: Site: June 19, 2019

Photo 344: Site: June 19, 2019

Photo 345: Site: June 19, 2019

Photo 346: Site: June 19, 2019

Appendix III

Quarterly Site Visits: Site Visit Attendees by Date of Site Visit/ Mitigation Monitoring Site Reports

UltraSystems Staff	**Fields of Expertise:**
James Aidukas	Project Manager, Permitting and Operations/ Engineer
Mike Lindsay	Air Quality, Noise, Vehicle Emissions, Environmental Specialist/ Engineer

SLR Staff	**Fields of Expertise:**
Tarik Hadj-Hamou	Geotechnical, Civil and Landfill Design/ Engineer

April Site Visits

April 11, 2019:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 4/11/19
Site Conditions: Cloudy 60-70° F, 0-10 MPH winds	

SITE LOG

Republic General Manager - Chris Coyle

Drove the Granada Hills neighborhood and school areas from 6:45 to 7:15 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems), signed in at the office, and proceeded to monitor the site and observed the following:

- The slopes in CC-4 Part 1/Part 2 were graded to repair rain storm were graded to repair rain storm erosion. The HDPE drainage downcomer was repaired.
- Cell CC-4 Part 3 grading had started.
- Closure Turf was maintained and no areas of concern were observed.
- A piece of fiberboard and some dumped waste was observed north of the I-14 overpass on Sierra Highway. South of the overpass was abandoned burned-out motorhome.
- The westside drainage into the terminal basin had vegetation on the prior dirt slopes. There was no erosion at the channel walls.
- The alluvial water had a minor amount of seepage into the terminal basin through the basin floor.
- Sediment was piled and some removed from the terminal basin's inlet area. The area east of the gabion wall had standing water at the top of the outlet risers. A sump pump was being used to drain the basin. Water discharged was sediment free.
- The main access road sloughed slope area near the terminal basin's inlet was graded and had jute netting and straw wattles installed.
- City Deck B sage mitigation planted and seeded areas were growing and doing well. The existing native areas were filling in and growing. All areas were being maintained.
- City Deck C sage mitigation area was doing well. There was some mustard that needed to be removed.
- The County sage mitigation area was growing and filling in within the areas that previously had spotty native sage community. There are bare areas where there are deep erosion rills.
- Cell CC-4 Part 1/Part2 was accepting waste with no concerns observed.
- The Old City North had clean rock for gas wells and recycled asphalt and concrete for road surfacing stockpiled on the top deck.
- A new westside concrete channel was installed on the slopes west and south of the offices. This is not the ultimate westside channel.
- Basin A was full of water. A significant amount of sediment was in the basin. Water was being pumped and used for construction dust control.
- CC-4 Part 3 buttress appeared to be nearing completion.

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- Basin B was dry with minimal sediment.
- SCS was repairing a broken leachate pipe on the CC-3A top deck and there were strong localized odors at approximately 12:00 p.m.

Flare Operating Conditions:

- Flare 1 - 1697˚F, 2146 SCFM, -57.76" vacuum, 38.53" out, 37% CH_4, 1.1% O_2, 100 ppm H_2S
- Flare 3 - shut down
- Flare 9 - 1654˚F, 4402 SCFM, -62.51" vacuum, 37.36" out
- Flare 10 - 1653˚F, 3630 SCFM
- Flare 11 - shut down

The gas-to-energy plant was using 8,007 SCFM of recovered landfill gas, 46% CH_4, 1.7% O_2, 94 ppm H_2S. Total gas volume recovered was 18,185 SCFM.

FURTHER REVIEW NEEDED
COMMENTS
Signed:

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 04-11-2019 Thursday
Site Conditions: Partly Cloudy, 58–65 °F, 4–9 mph, 35% RH	

SITE LOG

1. Met with Jim Aidukas (UltraSystems), and checked into office and with Joshua Mills (Republic).
2. An abandoned motorhome is along Sierra Highway near the I-14 overpass.
3. The terminal basin has sediment four feet above part of central gabion wall, and is beginning to dry out. Water level is still at the top of the riser drains.
4. Street sweepers are cleaning the haul roads.
5. Flare 1 is operating at 2146 scfm, 1690 °F. Gas sample measured at 37 % Vol. CH4, 1.2 % Vol. O2, over 100 ppm H2S and 291 ppm CO. Gas inlet temperature is at 107 °F.
6. City Deck B sage mitigation area is in good growing condition, with flowering plants present.
7. City Deck C sage mitigation area is in good growing condition. Some mustard weed is present.
8. Buttress and Cell CC-4 Part 3 grading appears to be almost complete.
9. Sediment basin A standing water is at top of riser drains due to past rains.
10. A new section of the westside drainage channel has been built near sediment basin A.
11. A new landfill gas recovery well is being drilled northeast of sediment basin A.
12. Water trucks are applying water throughout site for dust control.
13. Secondary access road perimeter gate is closed but unlocked.
14. Scrap metal is being removed from the old Flare 8 site.
15. Flare 9 is operating at 4392 scfm, 1653 °F. Gas sample measured at 46 % Vol. CH4, 1.7 % Vol. O2, 94 ppm H2S and 313 ppm CO. Gas inlet temperature is at 122 °F.
16. Flare 10 is operating at 3600 scfm, 1652 °F.
17. Flare 11 is offline.
18. The eastside drainage channel is in good order.
19. Sediment basin B is in good order, with no ponding water.
20. Bird abatement is active near working area, including noise rockets and falconry.
21. Traffic spotters are onsite to control traffic.
22. Odors are present at Cell CC-3A top deck at 12:05 PM. Workers are repairing leachate pipe connections.
23. Cell CC-4 Part 1 and 2 working area is in good order, including three tippers, traffic controllers, water misters and water trucks. ADC is 70% covered with new trash at 12:15 PM.
24. Met with Joshua Mills (Republic), and discussed our site monitoring observations.

FURTHER REVIEW NEEDED

1. Remove mustard weed at City Deck C sage mitigation area.
2. Ensure that the secondary access road perimeter gate remains locked.

Signed: Michael W. Lindsay

May Site Visits

May 7, 2019:

James Aidukas (UltraSystems)

Tarik Hadj-Hamou (SLR)

Mike Lindsay (UltraSystems)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 5/7/19
Site Conditions: Cloudy 55-70° F, 0-10 MPH winds	

SITE LOG

Republic General Manager - Chris Coyle

Drove the Granada Hills neighborhood and school areas from 6:40 to 7:15 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems), Tarik Hadj-Hamou (SLR), Vu Truong and Daniel Wibisono (LACDPW), signed in at the office, and proceeded to monitor the site and observed the following:

- The slopes in CC-4 Part 1/Part 2 were graded and in good condition. The HDPE downcomer had a section that needed repair.
- The Old City South landfill stockpile area slump has not changed.
- The terminal basin has alluvial iron oxide red colored water seeping into the basin through seams in the concrete floor. Standing water covers 50% of the area east of the gabion wall. Deep wet sediment (8' to 10' deep) covers most of the basin. Water being discharged is free of sediment but is iron oxide colored.
- Sierra Highway was free of debris and trash. The abandoned motorhome has not been removed.
- An abandoned boat and trailer was observed under the i-5 overpass on San Fernando Road. Illegally dumped wood waste, trash, and dirt was observed in the same area.
- A significant amount of sediment was observed in the eastside channel behind velocity humps and gabions.
- The southern perimeter oil field gate was locked.
- Leachate and condensate liquids were being treated with 30% hydrogen peroxide in the Alder tank farm before being sewered. A strong odor was detected near some uncapped loading hoses that were lying on the ground.
- CC-4A Part 1/Part 2 was active accepting waste. No operational concerns were noted.
- The old Flare 8 site has been cleared of stockpiled debris.
- The Active working area waste odors could be detected at the old Flare 8 site.
- Basin B was dry, with minimal sediment on the basin's floor. There were two areas of soil sloughing into the basin from native hillsides that will need to be trucked away.
- Basin A has some standing water near the outlet risers. There is a significant amount of wet sediment in the basin.
- The CC-4 Part 3 buttress has been completed.
- Cell CC-4 Part 3 grading is continuing.
- Deck C sage mitigation area is doing well. Sage and other native plants are growing in the saltbush understory. Mustard need to be removed in the area and under the PM10 trees.

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- Deck B sage mitigation plants are well establish and existing native plants have flourished due to the winter rains.

Flare Operating Conditions:

- Flare 1 - 1693˚F, 2360 SCFM, -57.76" vacuum, 38.55" out, 31% CH_4, 0.8% O_2, >100 ppm H_2S
- Flare 3 - shut down
- Flare 9 - 1654˚F, 2440 SCFM, -62.81" vacuum, 38.39" out
- Flare 10 - 1654˚F, 2481 SCFM
- Flare 11 - 1662˚F, 2449 SCFM

The gas-to-energy plant was using 9,128 SCFM of recovered landfill gas, 45% CH_4, 1.8% O_2, 86 ppm H_2S. Total gas volume recovered was 18,858 SCFM.

FURTHER REVIEW NEEDED
COMMENTS
Signed: 

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 05-07-2019 Tuesday
Site Conditions: Cloudy, 53–67 °F, 4–10 mph, 79% RH	

SITE LOG

1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office.
2. Met with Vu Truong and Daniel Wibisono (LAC DPW).
3. The terminal basin has sediment beginning to dry out. Water level is 2.5 feet from the top of riser drains. Skimmer system is not operating. Virtually no water is draining out of outlet channel. A 4-foot by 8-foot panel has fallen into the outlet channel.
4. Traffic spotters are onsite to control traffic.
5. Sierra Highway is clear of debris and trash. An abandoned motorhome is still along Sierra Highway near the I-14 overpass.
6. An abandoned boat and trailer are under the I-5 overpass on San Fernando Road.
7. Water trucks are applying water throughout site for dust control.
8. The perimeter gate is closed and locked at the oil field.
9. A strong leachate/ condensate odor is present around the Alder tank farm at 11:00 AM.
10. Strong landfill gas odors are present on the Cell CC-3A top deck near Well GW2086 at 11:15 AM. Workers are working on the well, and has a reading of <100 PPM H2S.
11. Cell CC-4 Part 1/2 working area is in good order, including three tippers, traffic controllers, water misters and water trucks.
12. Sediment basin B is in good order. Sloughing soil at side walls has not worsened.
13. The old Flare 8 site has been cleared of debris.
14. Working face odors are present at the old Flare 8 site. Winds are blowing north at 11 MPH.
15. Flare 9 is operating at 2435 scfm, 1647 °F. Gas sample measured at 45 % Vol. CH4, 1.8 % Vol. O2, 86 ppm H2S and 213 ppm CO. Gas inlet temperature is 122 °F.
16. Flare 10 is operating at 2459 scfm, 1640 °F.
17. Flare 11 is operating at 2460 scfm, 1641 °F. Gas inlet temperature is 131 °F.
18. Street sweepers are cleaning the haul roads.
19. Ground stakes have been placed for new electrical supply and controls, and future Flare 12 construction.
20. Sediment basin A standing water has mostly drained.
21. Buttress construction has been completed.
22. Cell CC-4 Part 3 construction grading continues.
23. Flare 1 is operating at 2379 scfm, 1672 °F. Gas sample measured at 31 % Vol. CH4, 0.8 % Vol. O2, over 100 ppm H2S and 262 ppm CO. Gas inlet temperature is 112 °F.
24. Met with Chris Coyle and staff (Republic), and discussed our site monitoring observations.

Page: 2 of 2 05-07-2019

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FURTHER REVIEW NEEDED
1. Remove panel in terminal basin outlet channel. 2. Eliminate odors at tank farm.
Signed: Michael W. Lindsay

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SUNSHINE CANYON LANDFILL

MITIGATION MONITORING
SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 10
Discipline: Civil – Geotechnical and Hydrology	Date: May 7,2019
Site Conditions: Sunny and warm	

SITE LOG

7:00 – 8:45

- Meet with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill, review of previous visits, discuss potential issues, organize areas and features to inspect.
- Sign-up at landfill
- Meet with LA County personnel who came to inspection: Vu Truong and Daniel Wibisono

8:45– 2:00 Site inspection

- Tour neighborhood to check for odor and illegal waste dumping
- Tour of landfill
- Access Roads
- Waste placement
- Erosion protection system
- Drainage systems (Basins, channels)
- Construction of buttress for Cell CC4 Part 4
- Landfill for geotechnical and hydrological issues
- Other observations
- Meet with Republic staff

Access Roads.

- Main access road: No additional sloughing observed on the embankment on the Terminal Basin side, just at the edge of the previously repaired area at the limit of the jute netting. No stability concerns
- Access road to administration pad – no additional depression/settlement observed on slope. (Photo 1)

Waste Placement

- Waste was placed in Cell CC4 Phase 2/3.
- ADC was used
- 4 Tilters were in use (Photo 2)

Drainage System

- Terminal Basin
  - Sediments have accumulated upstream of the separator gabion wall and was above the top tier of the wall on the south side of the basin (Photo 3)
  - The three skimmers were raised – it is our understanding that they are currently out of commission
  - The water level was below the top of the risers so because the water cannot flow out through them, it is pumped out through a pump lowered in one of the riser
  - Water is seeping at the connection between the wall of the basin and the floor slab (Photo 4).
  - Seeping water is also coming out of the joint between panels of the floor slab has left red stains on the concrete (Photo 5). It appears the slab may be uplifted a little and the joint has lost its filler

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- Reddish water is leaving the landfill (Photo 6)
- Vegetation is growing out of some weep holes and cracks in concrete walls (Photo 7)

• Cell CC3 Earthen basin
  - The basin is clean and available for storage
• Channel between Basin B and Terminal basin behind the leachate/condensate tank farm
  - Sediments and some detritus have accumulated at the location of the asphalt berm/gabion installed to slow down the velocity in of water in the channel. Vegetation has also established itself. (Photo 8)
• Basin B
  - Basin empty of water but contains a small amount of sediment but not enough to affect the anticipated performance of the basin to store stormwater.
  - Vegetation if growing through cracks in the channel (Photo 9)
• Basin D
  - Basin is clean
  - There is a gap between the shotcrete and the soil at the spillway which may cause problem is additional undermining occurs (Photo 10).
• Ditch along access road to Flare 9-11
  - The drain at the end of the concrete on side of road is plugged by sediments (Photo 11).
• Basin A
  - Basin held no water but contains a fair amount of sediment (Photo 12)
  - As noted previously, the basin will be reconnected to the drainage system when the new channel will be built around cell CC4 Part 4
  - The slopes towards Flare 3 near Basin A have been reworked and track rolled eliminating the deep gullies observed in previous visits. (Photo 13)
• Moat around Cell CC3 Part 2
  - There was water in the moat (Photo 14)

Excavation/Buttress for Cell 4 Phase 3
- No Fill placement work was ongoing at time of our inspection
- We noted that geosynthetics have stockpiled on top of buttress in preparation for ling the cell

Erosion Protection Systems
- Some erosion gullies have developed despite the protection blankets and wattles installed on numerous slopes.
- Some are deep enough that they are getting close to the buried waste (Photo 20)

Other Observations
- Wall along San Fernando Road
  - No changes since last visit. drainage swale partially full of sediments
- No odor detected outside of landfill and no illegal dumping noted except for a burned camper

Close-out meeting with Republic Staff representative to discuss findings of visit

FURTHER REVIEW NEEDED
- None

COMMENTS
- Republic may want to have the slabs in terminal basin examined by one of their consultant to check for uplifting and loss of filler in joints

Signed:

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Photo 1: Depression- settlement on access road to administration pad

Photo 2: Active waste face at Cell CC4

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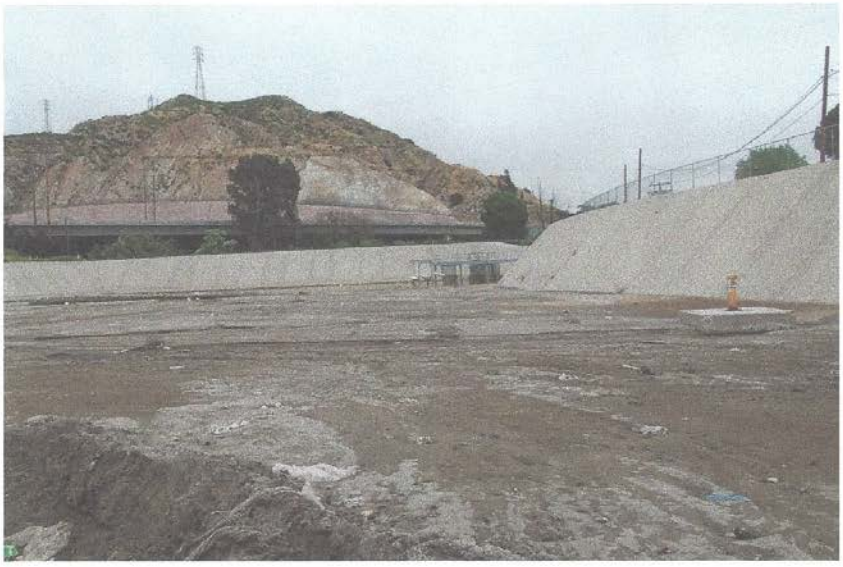

Photo 3: Sediment level in Terminal Basin

Photo 4: Water flowing out between floor slab and wall joints at Terminal basin

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Photo 5: Water flowing out between floor slab joints at Terminal basin

Photo 6: Reddish water leaving the landfill

Photo 7: Vegetation growing in weep hole and cracks of Terminal basin wall

Photo 8: Vegetation, sediments, and detritus in channel between Basin B and Terminal Basin

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Photo 9: Vegetation in channel near Basin B

Photo 10: Undermined shotcrete spillway at Basin D

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Photo 11: Sediments plugging drain at end of ditch along access road to Flares 9-11

Photo 12: Sediments in Basin A

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Photo 13: Reworked slopes beneath Flare 3 and near Basin A

Photo 13: Sediments in Basin A

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Photo 14: Water in moat around Cell CC4 Phase 3

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May 28, 2019:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 5/28/19
Site Conditions: Cloudy 60-75° F, 0-5 MPH winds	

SITE LOG

Republic General Manager - Chris Coyle

Drove the Granada Hills neighborhood and school areas from 6:15 to 7:00 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems), Gabriel Esparza (LACDPW), Tim Stapleton and Edgar De La Torre (LACDRP), signed in at the office, and proceeded to monitor the site and observed the following:

- Concrete V-ditches were installed on the area graded for the CC-4 Part 3 buttress from the area below Flare 3 to Basin A. An access road to Flare 3 was being graded.
- The closure turf was being maintained and a new small area was installed.
- The terminal basin was full of water from the gabion wall to the outlet riser. No water was being discharged. Sediment was wet and not being removed.
- The southern oil field perimeter gate was locked.
- Deck C sage mitigation was doing well. Mustard has grown and spread. Removal needs to be done.
- Deck B sage mitigation is growing and filling in. Mustard is not a problem in this area.
- Deck A native plants are growing. Removal of non-natives should be considered.
- Cell CC-4 Part 3 construction was underway with eight scrapers moving soil to the County top deck stockpile.
- CC-4 Part 1/Part 2 was active and accepting waste. The waste disposal area also was moved eastward, filling on a CC-3A slope and access road to the top deck.
- The Old City south landfill had slopes and HDPE drainage downcomers repaired.
- Rock, broken concrete, and asphalt was being stockpiled on the Old City north top deck.
- The CC-3B slope HDPE downcomer needs to be maintained.
- The low point leachate removal point in CC-3B was functioning with no odors detected. There was a minor alluvial water seep.
- The eastside drainage channel had significant sediment behind each velocity hump and gabion.
- Basin B was dry. Sediment and sloughed hillside soil has not been removed.
- County top deck had minor areas of ponding water.
- The height of the stockpiled soil from the buttress construction has been significantly reduced.
- Basin A is filled with water. No water is being discharged.

Page 2 of 2, 5/28/19:

Flare Operating Conditions:

- Flare 1 - 1692˚F, 2451 SCFM, -57.79" vacuum, 38.53" out, 31% CH_4, 0.6% O_2, >100 ppm H_2S
- Flare 3 - shut down
- Flare 9 - 1655˚F, 2677 SCFM, -63.19" vacuum, 38.92" out
- Flare 10 - 1647˚F, 2606 SCFM
- Flare 11 - 1654˚F, 2675 SCFM

The gas-to-energy plant was using 9,141 SCFM of recovered landfill gas, 45% CH_4, 0.6% O_2, >100 ppm H_2S. Total gas volume recovered was 19,550 SCFM.

FURTHER REVIEW NEEDED
COMMENTS
Signed: 

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 05-28-2019 Tuesday
Site Conditions: Clear, 58–74 °F, 3–7 mph, 45% RH	

SITE LOG

1. Met with Jim Aidukas (UltraSystems), and checked into office.
2. Met with Gabriel Esparza (LAC DPW), and Tim Stapleton and Edgar De La Torre (LAC DRP).
3. Street sweepers are cleaning the haul roads.
4. City Deck C sage mitigation area is in good growing condition. Some mustard weed is present.
5. City Deck A sage mitigation area is in good growing condition.
6. Observed overall landfill operations from observation deck, including eight scrapers removing soil from the Cell CC-4 Part 3 construction site, and hauling it up to a County stockpile area.
7. Flare 1 is operating at 2445 scfm, 1688 °F. Gas sample measured at 31 % Vol. CH4, 0.6 % Vol. O2, over 100 ppm H2S and 153 ppm CO. Gas inlet temperature is 114 °F.
8. City Deck B sage mitigation area is growing well, with flowering plants present including poppy and horsetail.
9. Observed closure turf at City north slopes to be in good order.
10. Broken asphalt is being stockpiled on the old City north top deck.
11. The terminal basin has sediment beginning to dry out. The standing water level is back to the top of the riser drains due to recent late-season rains. The skimmer system is not operating. A small amount of water is draining out of outlet channel.
12. Traffic spotters are onsite to control traffic.
13. The oil field perimeter gate is closed and locked.
14. The low-point liquid collection system is in good order, with no odors detected.
15. The working area at Cell CC-4 Part 1/2 is in good order, including three tippers, traffic controllers, water misters and water trucks. Only localized odors are present. The area at base of Cell CC-3A is now being filled. ADC is 90% covered with new trash at 11:05 AM.
16. Sediment basin B has sloughing soil at side walls, but it has not worsened since our 05-07-2019 visit.
17. Water trucks are applying water throughout site for dust control.
18. The eastside drainage channel has sediment accumulated at the gabion water bars.
19. Flare 9 is operating at 2628 scfm, 1655 °F. Gas sample measured at 45 % Vol. CH4, 0.6 % Vol. O2, over 100 ppm H2S and 327 ppm CO. Gas inlet temperature is 131 °F.
20. Flare 10 is operating at 2660 scfm, 1656 °F.
21. Flare 11 is operating at 2691 scfm, 1640 °F. Gas inlet temperature is 140 °F.
22. Sediment basin A is 80% filled with standing water due to recent rains.
23. Sierra Highway is clear of debris and trash. An abandoned motorhome is still along Sierra Highway near the I-14 overpass.
24. Met with Tuong-phu Ngo, Mike DeYoung and Dennis Montano (Republic), and discussed our site monitoring observations.

Page: 2 of 2 05-28-2019

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FURTHER REVIEW NEEDED
1. Remove mustard weed at City Deck C sage mitigation area. 2. Remove water bar sediment at eastside drainage channel.
Signed: Michael W. Lindsay

June Site Visits

June 18, 2019:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 6/18/19
Site Conditions: Cloudy 60-80˚ F, 0-10 MPH winds	

SITE LOG

Republic General Manager - Chris Coyle

Drove the Granada Hills neighborhood and school areas from 6:30 to 7:00 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems), Gabriel Esparza and Mike Harmon (LACDPW), and Tim Stapleton (LACDRP), signed in at the office, and proceeded to monitor the site and observed the following:

- The Old City south landfill stockpile slump area appears to be unchanged.
- The CC-4 Part 1/Part 2 slopes were graded. The downcomer was repaired.
- The closure turf was being maintained with no concerns noted.
- The south perimeter oil field gate was closed and locked.
- Sediment was moved into piles in the terminal basin to dry. A skip loader was being serviced in the basin and did not have secondary containment. The water level from the gabion wall to the outlet risers was approximately 6" below the top of the outlet. Minimal water was being discharged. The skimmer system was not operating.
- The underdrains seep water was stopped at the CC-3B leachate recovery area. No leachate odors were detected in this area.
- The CC-3B slopes, closure turf and downcomer were maintained.
- No odors were detected in the Alder Tank farm liquids treatment facility. Hydrogen peroxide was being used to treat the liquids.
- The Old City south landfill's slopes and drainage were being maintained.
- There was drainage rock and recycled asphalt stockpiled on the Old City north top deck.
- The eastside drainage channel had sediment piles behind the rock gabions and asphalt humps.
- The Cell CC-3A top deck had gas odors detected. A gas well was being drill on the deck.
- Cell CC-4 Part 1/Part 2 was accepting waste. No concerns were noted.
- The Big Cone Fir mitigation trees were growing well and had significant growth from last year's rain. Replacement trees for dead trees were not planted.
- Basin A was full of wet sediment with standing water in 1/3 of the basin near the risers.
- The CC-4 Part 3 liner underdrain system was being installed.
- The County sage mitigation area had filled in with native plants from the winter rains. One section has deep rills and needs benching, and straw wattles.
- City Deck C sage mitigation area was doing well. Removal of mustard in and adjacent to this area has not been done.
- City Deck B sage mitigation area was doing well and was maintained.

Page 2 of 2, 6/18/19:

Flare Operating Conditions:

- Flare 1 - 1695˚F, 2502 SCFM, -57.94" vacuum, 38.50" out, 31% CH_4, 0.4% O_2, >100 ppm H_2S
- Flare 3 - shut down
- Flare 9 - 1655˚F, 2542 SCFM, -67.28" vacuum, 39.25" out
- Flare 10 - 1657˚F, 2489 SCFM
- Flare 11 - 1646˚F, 2410 SCFM

The gas-to-energy plant was using 9,225 SCFM of recovered landfill gas, 45% CH_4, 0.7% O_2, 87 ppm H_2S. Total gas volume recovered was 19,168 SCFM.

FURTHER REVIEW NEEDED
COMMENTS
Signed: 

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 06-18-2019 Tuesday
Site Conditions: Cloudy, Fog, 60–80 °F, 2–8 mph, 84% RH	

SITE LOG

1. Met with Jim Aidukas (UltraSystems), and checked into office.
2. Met with Gabriel Esparza and Mike Harmon (LAC DPW), and Tim Stapleton (LAC DRP).
3. Street sweepers are cleaning the haul roads.
4. The oil field perimeter gate is closed and locked.
5. The terminal basin has sediment being placed into piles to dry out. The standing water level is just below the top of the riser drains. The skimmer system is not operating. A small amount of water is draining out of outlet channel.
6. A bulldozer is being serviced inside of the terminal basin, about 20 feet from the ponded water. There is not adequate secondary containment underneath the machine.
7. The low-point liquid collection system is in good order with no odors detected, and the alluvial water seeps have stopped flowing.
8. Traffic spotters are onsite to control traffic.
9. No odors are present at the Alder tank farm.
10. Cell CC-3A has a new landfill gas collection well being drilled in the northeast corner of the top deck.
11. The working area at Cell CC-4 Part 1/2 is in good order, including three tippers, traffic controllers, water misters and water trucks. ADC is 40% covered with new trash at 10:30 AM.
12. Flare 3 is offline.
13. Sediment basin A has some ponding water.
14. Water trucks are applying water throughout site for dust control.
15. Big cone fir trees are growing well, with significant height increases due to the heavy rain season.
16. Flare 9 is operating at 2503 scfm, 1652 °F. Gas sample measured at 45 % Vol. CH4, 0.7 % Vol. O2, 87 ppm H2S and 182 ppm CO. Gas inlet temperature is 132 °F.
17. Flare 10 is operating at 2531 scfm, 1650 °F.
18. Flare 11 is operating at 2554 scfm, 1658 °F. Gas inlet temperature is 141 °F.
19. Flare 1 is operating at 2505 scfm, 1685 °F. Gas sample measured at 31 % Vol. CH4, 0.4 % Vol. O2, over 100 ppm H2S and 111 ppm CO. Gas inlet temperature is 129 °F.
20. City Deck B sage mitigation area is growing well, with flowering plants and birds present.
21. City Deck C sage mitigation area is in good growing condition. Some mustard weed is present.
22. Met with Joshua Mills, Mike DeYoung and Dennis Montano (Republic), and discussed our site monitoring observations.

FURTHER REVIEW NEEDED

1. Ensure that adequate secondary containment is used when servicing equipment.
2. Remove mustard weed at City Deck C sage mitigation area.

Signed: Michael W. Lindsay

Appendix IV
Meeting Logs

Sunshine Canyon Landfill
Meeting Log for April 2019 Site Monitoring

April 11, 2019

Post-monitoring meeting with Joshua Mills (Republic).

Attendees:
James Aidukas, UltraSystems
Mike Lindsay, UltraSystems

Discussion:

We had a post-monitoring meeting with Republic Services and provided them with our monitoring observations. We asked questions regarding site activities and mitigation status, and received comments and updates as follows:

a. James Aidukas asked if Republic was considering constructing a new sedimentation basin south of Basin A.
   - Joshua Mills stated that another sediment basin is not necessary at this time.

b. James Aidukas stated that strong localized leachate odors were present at the Cell CC-3A top deck where SCS was working at approximately 12:00 p.m..
   - Joshua Mills stated that they were cleaning a 3-inch leachate pipeline and had a break. The line was being replaced with a 4-inch pipeline. The new Republic standard is to use 4-inch pipelines and an electric de-scaling system.

c. James Aidukas asked if Republic was still pre-treating the liquids at the tank farm.
   - Joshua Mills stated that they are using hydrogen peroxide to pre-treat the liquids before pumping them to the sewer connection. The treatment is to remove dissolved sulfites, which have a sewering limit.

d. James Aidukas asked why Flare 11 was offline.
   - Joshua Mills stated that they were cleaning the burner tips.

e. Mike Lindsay stated that mustard weed plants are growing on City Deck B and C.
   - Joshua Mills acknowledged the statement.

f. Mike Lindsay stated that the secondary access road perimeter gate above the Flare 11 site was unlocked.
   - Joshua Mills acknowledged the statement.

g. Mike Lindsay asked what the status was on the re-abandonment of the old dry hole oil wells.
   - Joshua Mills stated that they met with DOGGR and are pursuing permits.

h. Mike Lindsay stated that we observed scrap metal was being removed from the old Flare 8 site.
   - Joshua Mills acknowledged the statement.

Page 1 of 2

i. James Aidukas stated that we observed that a sump pump was being used to drain the water out of the terminal basin.
   - Joshua Mills stated that the skimmer system was clogged with debris or pinched and that once the basin is dry the skimmer system will be fixed and/or modified.

j. James Aidukas stated that sediment basin A was full of water.
   - Joshua Mills stated that they are setting up a J-stand to use the water for controlling construction dust.

k. James Aidukas stated that there was a piece of fiberboard and waste dumped on the shoulder of Sierra Highway north of the I-14 overpass and an abandoned burned-out motorhome south of the I-14 overpass. Two truck tires were dumped on the on the San Fernando Road shoulder near the Old Road.
   - Joshua Mills acknowledged the statement.

l. Mike Lindsay stated that windblown trash is present in a canyon south of the buttress.
   - Joshua Mills stated that they will get the trash picked up.

m. Mike Lindsay stated that the cutoff wall pumps seem to be not removing all of the alluvial water and water is percolating out of the concrete floor and sides of the terminal basin near the entrance.
   - Joshua Mills called operations, and asked them to check the pumps.

The meeting was then adjourned.

Sunshine Canyon Landfill
Meeting Log for May 2019 Site Monitoring

May 7, 2019

Post-monitoring meeting with Chris Coyle, Valorie Moore, Michael DeYoung and Dennis Montano (Republic).

Attendees:
Vu Truong, (LACDPW)
Daniel Wibisono, (LACDPW)
James Aidukas, UltraSystems
Tarik Hadj-Hamou, SLR
Mike Lindsay, UltraSystems

Discussion:

We had a post-monitoring meeting with Republic Services and provided them with our monitoring observations. We asked questions regarding site activities and mitigation status, and received comments and updates as follows:

a. James Aidukas stated that there is an abandoned motor home on Sierra Highway south of the I-14 overpass. The rest of Sierra Highway was free of illegally dumped trash and debris.
   - Valerie Moore acknowledged the statement.

b. James Aidukas stated that there is an abandoned boat and trailer on San Fernando Road near the I-5 overpass along with illegally dumped waste and dirt. The City should be notified of the condition.
   - Valerie Moore acknowledged the statement.

c. James Aidukas stated that there were no landfill odors detected in the adjacent neighborhood or at the school.
   - Valerie Moore acknowledged the statement.

d. James Aidukas stated that fresh, localized trash odors were present at the old Flare 8 site at about noon, with winds blowing directly north across the working area.
   - Valerie Moore acknowledged the statement.

e. James Aidukas stated that there was a landfill gas odor detected on the Cell CC-3A top deck at about 10:00 AM near the cactus well.
   - Valerie Moore acknowledged the statement.

f. James Aidukas stated that odors were detected at the Alder tank farm at about 10:30 AM, apparently coming from tank truck hoses lying on the ground with no hose caps.
   - Valerie Moore acknowledged the statement.

g. James Aidukas stated that it was observed that numerous City packer trucks were not cleaning out their rear seals after dumping trash.
   - Valerie Moore acknowledged the statement.

h. Tarik Hadj-Hamou stated that the sediment Basin B was dry with minimal sediment, Basin A was drying out with significant sediment, and the terminal basin had standing water with a significant amount of sediment.
   - Valerie Moore acknowledged the statement.

i. Tarik Hadj-Hamou stated that it was observed that the eastside drainage channel had significant sediment behind each flow control bars.
   - Valerie Moore stated that the eastside channel cleanout work will begin in May.

j. James Aidukas stated that alluvial water is seeping into to the terminal basin through expansion joints in the concrete floor. It appears that the cutoff wall pumps are not working.
   - Michael DeYoung stated that they will investigate the water source and correct the seep.

k. James Aidukas stated that the terminal basin entrance floor is crowned (raised in the center), which could possibly be cause by the alluvial water seep.
   - Michael DeYoung acknowledged the statement.

l. Vu Truong asked when Cell CC-4 Part 3 construction will be completed.
   - Chris Coyle stated that the top grading will be completed by the end of this month.

m. Vu Truong stated that the County is working on the latest Cell-4 Part 3 submittal.
   - Chris Coyle stated that the only thing that has changed was the amount of soil going back in. The liner installation is scheduled to begin June 1.

n. Mike Lindsay stated that a 4-foot by 8-foot panel is in the terminal basin outlet channel.
   - Chris Coyle stated that operations personnel will get it removed.

o. James Aidukas asked Chris Coyle to explain the DWP power surge and impact on equipment.
   - Chris Coyle stated that all of their vendors say there is nothing that could have prevented the damage to sensitive control equipment from a large power surge. The DWP surge into the Edison grid was approximately 85 megawatts. Equipment controls were destroyed and replacement of controls was worked on immediately.

p. Mike Lindsay stated that wooden ground stakes have been placed near the Flare 11 deck.
   - Chris Coyle stated that those stakes are for the installation of an additional electrical supply and controls that can also be used for a future Flare 12 project.

The meeting was then adjourned.

May 28, 2019

Post-monitoring meeting with Tuong-phu Ngo, Michael DeYoung and Dennis Montano (Republic).

Attendees:
Tim Stapleton (LACDRP)
Edgar De La Torre (LACDRP)
Gabriel Esparza (LACDPW)
James Aidukas, UltraSystems
Mike Lindsay, UltraSystems

Discussion:

We had a post-monitoring meeting with Republic Services and provided them with our monitoring observations. We asked questions regarding site activities and mitigation status, and received comments and updates as follows:

a. James Aidukas stated that mustard weed is growing in the City deck C sage mitigation area.
   - Michael DeYoung stated that the mustard weed removal is underway.

b. James Aidukas asked if Republic has any big cone fir seedlings for mitigation planting.
   - Michael DeYoung stated that they do not have any seedlings.
   - Tuong-phu Ngo stated that they will work on obtaining seedlings. They need 73 big cone firs mitigation trees.

c. James Aidukas stated that it was observed that sediment basin A was full of water.
   - Tuong-phu Ngo stated that they are pumping the water out and using it for dust control.

d. James Aidukas asked where the excavated soil from Cell CC-4 Part 3 construction was going.
   - Tuong-phu Ngo stated that it is going to the County top deck stockpile area.

e. James Aidukas asked when Cell CC-4 Part 3 construction would be complete.
   - Tuong-phu Ngo stated that it is scheduled to be completed in October.

f. James Aidukas asked if the liner will go all the way up the buttress to the sediment basin A roadway.
   - Tuong-phu Ngo stated that it will go up to the corner of Basin A.

g. James Aidukas asked what was being treated at the Alder tank farm.
   - Tuong-phu Ngo stated that they are pretreating both leachate and condensate before sending it to the sewer connection.

h. James Aidukas stated that DCOR's field operator stated that vandals broke windows on equipment in the oil field.
   - Tuong-phu Ngo acknowledged the statement and said that the landfill was not affected.

i. James Aidukas stated that the total amount of landfill gas being recovered today was 19,550 SCFM.
   - Tuong-phu Ngo acknowledged the statement.

j. James Aidukas stated that landfill gas at Flare 1 was 31% CH4, which is lower than usual.
   - Tuong-phu Ngo acknowledged the statement.

k. Gabriel Esparza asked if Republic was planning on installing a new Flare 12.
   - Tuong-phu Ngo stated that yes they are and that permitting is currently under SCAQMD review.

l. Gabriel Esparza asked for the status of the stability buttress.
   - Michael DeYoung stated that they are wrapping up the buttress and cell report. He is not sure of the scheduled date of delivery.

m. Gabriel Esparza asked what the status of the causes of gas at the perimeter gas monitoring well 205R, and possible gas migration from the close-by previously-abandoned oil wells.
   - Dennis Montano stated that Joshua Mills is waiting for information from DOGGR.

n. James Aidukas suggested that Republic call 311 and report the illegal dumping of trash, debris and dirt piles on San Fernando Road near the I-5 overpass.
   - Dennis Montano acknowledged the statement.

The meeting was then adjourned.

Sunshine Canyon Landfill
Meeting Log for June 2019 Site Monitoring

June 18, 2019

Post-monitoring meeting with Joshua Mills, Michael DeYoung and Dennis Montano (Republic).

Attendees:
Tim Stapleton, LACDRP
Gabriel Esparza, LACDPW
Mike Harmon, LACDPW
James Aidukas, UltraSystems
Mike Lindsay, UltraSystems

Discussion:

We had a post-monitoring meeting with Republic Services and provided them with our monitoring observations. We asked questions regarding site activities and mitigation status, and received comments and updates as follows:

a. Mike Lindsay stated that a skiploader was being serviced within the terminal basin without adequate secondary containment.
   - Joshua Mills stated that he already told operations to get that machine out of the basin.

b. James Aidukas stated that we observed that the terminal basin was full of water from the gabion wall to the risers and asked what the status was for the draining the basin.
   - Joshua Mills stated that they are not letting the water out, but pumping it into water trucks and using it for dust control.

c. James Aidukas stated that new V-ditches have been installed above the CC-4 Part 3 buttress and asked if more are planned.
   - Joshua Mills stated that the main perimeter channel still needs to be installed.

d. James Aidukas stated that the big cone firs are doing well, with significant growth due to the winter rains and asked what the status was of replacement tress for the ones that died.
   - Michael DeYoung stated that they are working on acquiring seed stock for the loss and additional replacement trees.

e. James Aidukas stated that the Cell CC-3A top deck was odorous, and that it could have been from the gas well drilling rig.
   - Joshua Mills stated that they have all of the drilling rig gas controls in place, and that he will visit the drilling site.

f. James Aidukas stated that there was some comingled trash in the cover soil on the Cell CC-3A top deck.
   - Joshua Mills stated that they will take care of having it removed.

g. James Aidukas stated that strong odors from fresh disposed waste were present north of the Flare 9, 10, 11 area.

- Joshua Mills stated that most of the odor controls are on the south side to protect the neighborhood. Wind conditions caused the odors to move to the north and but not leaving the site.

h. James Aidukas stated that landfill gas being recovered was 19,168 SCFM today.
   - Joshua Mills stated that the new well installations also increase CH4 concentrations.

i. James Aidukas stated that there are >100 PPM H2S tags on some gas wells.
   - Joshua Mills stated that they have a few hot H2S wells that they watch. The tags are there to notify operations personnel and gas consultants.

j. James Aidukas stated that the scraper loops had areas of dust and that the use of additional water trucks to control dust should be considered.
   - Joshua Mills stated that he will confirm that with operations.

k. Mike Lindsay stated that mustard weed is growing in and adjacent to the City deck C sage mitigation area.
   - Michael DeYoung stated that he will talk with the vegetation maintenance contractor.

l. Mike Lindsay asked when Cell CC-4 Part 3 will be complete.
   - Joshua Mills stated that Part 3 will be complete by October 1.

m. Mike Lindsay asked if the buttress design plans include jute netting cover.
   - Joshua Mills stated that it includes jute netting and hydroseeding.

n. Mike Lindsay asked if a permit was required to store the hydrogen peroxide at the Alder tank farm liquids treatment system.
   - Michael DeYoung stated that no permit is required for that quantity of hydrogen peroxide.

o. Gabriel Esparza stated that the abatement order expires at the end of this month and asked if there will be any operational changes.
   - Joshua Mills stated that they are going to keep the truck delivery schedule the same for now.

p. James Aidukas stated that we observed that water supply on site pipelines were being replaced.
   - Joshua Mills stated that they are being replaced with steel pipeline to be fire-safe.

The meeting was then adjourned.