

**Sunshine Canyon Landfill  
Independent Monitor  
Quarterly Site Monitoring Status Report  
April 1, 2017 – June 30, 2017**

*Prepared For:*

**City of Los Angeles Department of City Planning**

*And*

**County of Los Angeles Department of Regional Planning**



*Prepared By:*



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*Prepared On:*

October 10, 2017

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**UltraSystems**  
environmental | management | planning

## **CERTIFICATION STATEMENT**

October 10, 2017

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated October 10, 2017 is the Second Quarterly Report for 2017, issued by UltraSystems. This report covers the monitoring period from April 1, 2017 through June 30, 2017 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

Project Manager

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Sunshine Canyon Landfill City Mitigation Monitoring Summary  
(see spreadsheet)

Sunshine Canyon Landfill County Mitigation Monitoring Summary  
(see spreadsheet)

## Appendices

Appendix I – Further Review Needed Comments: Reference I-f through I-i

Appendix II – Photo Location Map and Relevant Site Photos

Appendix III – Quarterly Site Visits

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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, 2017 to June 30, 2017. It includes:

1. The City and County Mitigation Monitoring Summary spreadsheets for April 1, 2017 to June 30, 2017. These spreadsheets record the areas of monitoring completed and the status of being compliant during the second quarter of 2017;
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 2017 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on April 18, 2017; May 9, 2017; May 23, 2017; and June 20, 2017. 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 on-site 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 on-

site 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' four 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 landfiling 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 buttress design plans and engineering documents to support Cell CC-4A Part 3 adjacent native slopes were under review by the County Department of Public Works Civil Engineering and Permitting sections. The buttress is outside of the prior-approved landfill footprint, and requires removal of native vegetation. No special species birds, mammals, or plants were reported to be found in the area. Nesting birds were reported to be seen, and required fledging before any grading could begin.

In April, waste was being placed in Cells CC-4 Part 1 and CC-3B. Excavation was underway, moving soil from the future Cell CC-4 Part 2 area. There were 14 scrapers moving soil. The existing access roads were being used for disposal operations.

In May, waste was being placed in Cell CC-4 Part 1 with three tippers operating. Thirteen scrapers were excavating soil from the Cell CC-4 Part 2 area, and moving it to a stockpile near the eastside drainage area. Temporary access roads to the disposal area were modified as the fill progressed.

In June, waste disposal was occurring in Cell CC-4 Part 1. Cell CC-4 Part 2 construction was delayed due to a landslide on the western slope of the future cell. Temporary access roads were constructed during the filling of Cell CC-4A Part 1 that used compacted cover soil.

**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** – As the access road lengthened from the scales to the operating disposal area in Cell CC-4A Part 1, the temporary roadway used compacted cover material for the road surface. The roadway needs to be surfaced with recycled asphalt, aggregate materials, or soft stabilization products in order to minimize the length of untreated dirt. The temporary construction roads used by the earthmoving equipment also needs the use of a soil stabilizer product to control dust. The use of water trucks was not always effective on either of the roadways.

**Q-C.5 (City)**

*Graffiti removal and deterrence on building and structures in public view.*

**Current Status/Comments** – During this 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 7,966 SCFM of recovered landfill gas, 50.0% CH<sub>4</sub> and 1.66% O<sub>2</sub>. The facility was at 100% production. Flare 1 – 2,369 SCFM; Flare 3 – shut down; Flare 9 – 3,197 SCFM; Flare 10 – 3,204 SCFM. The total volume of landfill gas recovered was 16,736 SCFM.

In early May, the gas-to-energy plant was using 8,797 SCFM of recovered landfill gas, 50.0% CH<sub>4</sub> and 1.66% O<sub>2</sub>. The facility was at 100% production. Flare 1 – 1,771 SCFM; Flare 3 – shut down; Flare 9 – 2,807 SCFM; Flare 10 – 2,863 SCFM. The total volume of landfill gas recovered was 16,238 SCFM.

In late May, the gas-to-energy plant was using 8,833 SCFM of recovered landfill gas, 47.0% CH<sub>4</sub>. The facility was at 100% production. Flare 1 – 2,084 SCFM; Flare 3 – shut down; Flare 9 – 3,210 SCFM; Flare 10 – 3,223 SCFM. The total volume of landfill gas recovered was 17,350 SCFM.

In late June, the gas-to-energy plant was using 9,038 SCFM of recovered landfill gas, 46.0% CH<sub>4</sub>. The facility was at 100% production. Flare 1 – 3,304 SCFM; Flare 3 – shut down; Flare 9 – 3,884 SCFM; Flare 10 – 3,742 SCFM. The total volume of landfill gas recovered was 19,968 SCFM.

Throughout the second quarter, the quantity of landfill gas recovered during our monitoring has increased from a high of 14,557 SCFM during the first quarter of 2017 to a high of 19,968 SCFM during the second quarter. This could be due to the use of Posi-Shell and Closure Turf to seal the slopes and decks in Cell CC-3A and Cell CC-3B, the addition of a gas collection system under the Closure Turf, and the installation of additional vertical wells.

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.

**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** – Future out-of-approved landfill footprint grading is proposed for a Cell CC-4 Part 3 buttress. Grading plans have been submitted to the County Department of Public Works for approval. These plans are under review by County Civil Engineering and Permitting sections. The only grading occurring in this quarter was for the development of Cell CC-4 Part 2 and the removal of soil for waste cover from stockpiled soil in Cell CC-3A. These activities are inside the approved landfill footprint.

**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** – Alternatives to hydroseeding on interim and inactive slopes and decks for slope stability and dust control were being used due to the drought. Posi-Shell has been applied to areas in Cell CC-3A and Cell CC-3B. The installation of Closure Turf has been done on some of the Cell CC-3A and Cell CC-3B south-facing slopes. These systems have been shown to control dust, erosion and surface emissions.

#### **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 abandoned oil well steel casings in the area north of the office site have been covered with stockpiled soil. The lowering of the well casings and permanent abandonment should be done when the stockpiled soil is removed and the final grade elevation for future liner installation is reached.

The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site should be reabandoned when the other two wells are reabandoned. None of the wells were leaking oils or gas, nor pose a current hazard.

#### **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 PVC pipe survey markers have been removed in areas where Edison pole grading took place, as well as near the Flare 11 site pad grading. These boundary markers have not been replaced. All survey markers should be replaced once the Cell CC-4 Part 3 buttress is constructed.

#### **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 application 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, there were no landfill odors detected around the school or in the adjacent neighborhood from 6:30 to 7:30 a.m. Greenwaste odor was detected at Titian and Orozco at 7:15 a.m. coming from the south. A liquid tote container at the Flare 9 and Flare 10 blowers' location was used for collecting condensate from a knockout vessel. The inlet opening was venting vapors causing a strong localized odor.

In early May, there were no landfill odors detected around the school or the immediate adjacent neighborhood between 6:45 and 7:45 a.m. The condensate liquid tote tanks (two tanks) at Flares 9 and 10 blowers had the tank inlets open to the atmosphere and were venting condensate vapors. A strong localized odor was detected. The lift pump at the sewer connection had strong localized liquid odors that drifted to the San Fernando Road wall. The rubber cover to seal the pump vault access panels was not being used.

In late May, there were no landfill odors detected in the adjacent neighborhood or in the Cascades neighborhood between 6:30 and 7:30 a.m. There was a strong liquids odor coming from the sewer lift pump vault which could be detected at the San Fernando Road block wall. The rubber mat to cover the vault access panels was not being used. Localized odors were detected coming from Well CTC 625. Strong odors were detected on the top deck of Cell CC-3A coming from the Well GW-2087 and 2088 area.

In late June, there were no landfill odors detected around the school, in the adjacent neighborhood, or in the Cascades neighborhood between 6:15 and 7:30 a.m. Packer trucks were observed leaking liquids onto the pavement while waiting to enter the scales.

#### **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.

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.

Cell CC-4 Part 2 had a drainage system to a low point sump.

### **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 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.

**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 current erosion control plans should be available for agency and monitor review. This plan should be a living document that keeps up with construction activities.

**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.*

**Current Status/Comments** – In the first quarter of 2017, the slopes that were void of vegetation had straw wattles placed on them to control erosion. Rock gabions were constructed on the Old City South landfill access road, in the westside drainage channel and across the inlet, and within the terminal basin to slow down the flow of water and drop out sediment. The erosion and sediment control systems performed as designed, and managed the rainwater and sediment. The erosion on the slopes was minimized due to the straw wattles. During the second quarter, the channel rock gabions and sediment were removed.

Due to the extremely heavy rainfall in the first quarter, the wattle slope erosion controls were not able to handle the high flows of water and sediment loading. Drainage ribbons were observed on most of the slopes, with exposed trash observed on some slopes. In the second quarter, slope erosion was being repaired.

**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 basins 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, Basin A had sediment being removed. Sediment was piled to dry, and dried sediment was being trucked away. The outlet risers were not being cleaned. The outlet channel was cleaned and drainage pipes installed under a temporary road. Basin B had minor sediment in the basin, with piles of debris and sediment observed along the back, concrete walls. The temporary basin below Cell CC-3B was cleared of sediment and waste debris. The low-flow outlet pipe was blocked with debris and sediment. The terminal basin had sediment pushed into piles for draining water. Portions of the basin were cleared of sediment. The outlet risers had not been cleared of sediment nor debris. Capacity for future storm events had been reduced.

In early May, the outlet channel of Basin A was functional with the dirt blockage removed. Drainage pipes were installed under a temporary dirt access road in the channel. The outlet risers had the rock plugged with sediment, and water was ponding. Soil was sloughing from the southern slope into the basin. The slope needs to be graded and stabilized. The sediment in the basin was removed. Basin B had ponding water at the outlet risers. The basin was cleared of sediment. The Cell CC-3B temporary basin was cleared of sediment and debris. The low-flow outlet was not cleaned, and was blocked with debris and sediment.

In late May, Basin A was cleared of sediment. The sloughed soil from the southern dirt slope was being removed. Slope repair was not yet done. There was standing water at the outlet riser. The risers and filter rock had not been cleaned. Basin B was cleared of sediment except for the area around the outlet risers and the two, back wall farthest points. Basin D was clean and dry with no sediment. The terminal basin inlet was blocked with a soil berm to block water flow and allow yearly cleaning. All sediment was removed. The gabion wall and the outlet risers were covered with sediment and possibly plugged.

In late June, Basin A had the bulk of sediment and construction slide soils removed. Minor clean-up of the basin was still needed. Basin B was cleared of sediment. There was no standing water in the basin. The terminal basin inlet was blocked by a dirt berm, and there was standing water in back of it. There was standing water at the gabion wall inside the basin and at the outlet risers. The basin was free of sediment except for the area around the outlet risers. The risers were going to be modified in August 2017 to include a clean water skimming outlet system.

**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 web site 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 stormwater 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.

In mid-April, the road to Flare 3 had significant erosion with deep ruts (greater than 12" deep) along the edge of the road. No lined drainage control V-ditch was in place. The westside drainage channel floor that was uplifting and walls that were cracking and shifting noted on the March 9, 2017 site monitoring were repaired. The floor concrete was removed and replaced, and any damaged walls fixed. The temporary basin below Cell CC-3B was cleared of sediment and waste debris. The low-flow outlet pipe was still blocked with debris and sediment. The terminal basin had portions of the basin cleared of sediment. The outlet risers have not been cleared of sediment or debris. Capacity for future storm events had been reduced.

In early May, the Old City landfill had deep erosion ribbons on the slopes near the office parking area. The Cell CC-3A front slopes also had deep erosion ribbons. Both of these areas are soil stockpiles. The Old City landfill's winter storm impacts to the HDPE drainage downcomers and piping were repaired. A concrete section of the City Deck B drainage channel that did not drain was removed and replaced. The San Fernando Road retaining wall had additional soil slough down onto the wall fence.

In late May, the Basin D outlet channel liner was still lifted with tumbleweeds and debris under the liner. Maintenance had not yet been performed. Basin A had standing water at the outlet risers. The San Fernando Road retaining wall had additional sloughing of soil, and soil and rock were topping the fence in multiple locations. Republic's consulting engineers are preparing a report to correct the current condition.

In late June, the terminal basin inlet was blocked and there was standing water in back of a dirt berm. There was no pump observed at the berm. There was standing water at the gabion wall inside the basin and at the outlet risers.

### **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 slopes had significant erosion rills.

In early May, City Deck C sage mitigation was doing well with sage coming back and all vegetation greening up from the season's rain. A minor amount of mustard needed to be removed. The City Deck C PM-10 oak trees were growing well. No understory planting had been done.

In late May, City Deck C sage mitigation was showing signs of sage regrowth and new plants under the salt bush.

Throughout the second quarter, no sage mitigation activity was performed in the County sage area.

**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** – The City Attorney, City DWP, City Recreation and Parks, and Republic were finalizing an agreement to use the Chatsworth Reservoir as a wetland mitigation site. The agreement, once finalized, will be delivered to the DWP Board for approval and then to the City Council for approval. Republic is preparing an addendum to the MND.

**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 service 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 web site.*

**Current Status/Comments** – Sierra Highway near the I-14 overpass had no illegal dumping or windblown litter observed during the second quarter monitoring period.

**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 second quarter of 2017, the south perimeter oil field gate was observed to be 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 second quarter of 2017, a Republic paleontological consultant was monitoring grading activities in and adjacent to Cell CC-4 Part 2.

### **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 should be available for agency and monitor review.
- 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 issues are not being actively monitored by UltraSystems, and may not be compliant.

The 2017 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  
(04-01-2017 through 06-30-2017)**

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	First Quarter 2017																Second Quarter 2017																													
					1/17/2017	Status*	Further Review Needed/Comments**	Resolved*	1/31/2017	Status*	Further Review Needed/Comments**	Resolved*	2/23/2017	Status*	Further Review Needed/Comments**	Resolved*	3/9/2017	Status*	Further Review Needed/Comments**	Resolved*	3/23/2017	Status*	Further Review Needed/Comments**	Resolved*	4/18/2017	Status*	Further Review Needed/Comments**	Resolved*	5/9/2017	Status*	Further Review Needed/Comments**	Resolved*	5/23/2017	Status*	Further Review Needed/Comments**	Resolved*	6/20/2017	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	✓	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	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i							
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	✓	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	✓	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	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
17	Q - C.3.h.		Surfacing of Access Roads	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	FRN	I-f	✓	FRN	I-g	✓	FRN	I-h	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i							
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	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				
19	Q - C.10.c.		Evaluation of Beneficial Gas Usage	June yearly	✓	C	I-a	✓	C	I-b	✓	C	I-c	✓	C	I-d	✓	C	I-e	✓	C	I-f	✓	C	I-g	✓	C	I-h	✓	C	I-i	✓	C	I-i	✓	C	I-i	✓	C	I-i	✓	C	I-i							
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																																																		
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	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i							
27	T - 5.j.		Trip Diversion	status	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE				

\* 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**  
(04-01-2017 through 06-30-2017)

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	First Quarter 2017																Second Quarter 2017																			
					1/17/2017	Status*	Further Review Needed/Comments**	Resolved*	1/31/2017	Status*	Further Review Needed/Comments**	Resolved*	2/23/2017	Status*	Further Review Needed/Comments**	Resolved*	3/9/2017	Status*	Further Review Needed/Comments**	Resolved*	3/23/2017	Status*	Further Review Needed/Comments**	Resolved*	4/18/2017	Status*	Further Review Needed/Comments**	Resolved*	5/9/2017	Status*	Further Review Needed/Comments**	Resolved*	5/23/2017	Status*	Further Review Needed/Comments**	Resolved*	6/20/2017	Status*	Further Review Needed/Comments**	Resolved*
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		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
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		/	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		✓	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		✓	C	NONE	
34	M - 4.2.12	28	Site Erosion-Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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		✓	C	NONE	
36	M - 4.2.12		Site Erosion-Sealant	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		✓	FRN	I-i	
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		/		I-i	
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		/		I-i	
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		✓	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		/		I-i	
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		✓	FRN	I-i	
42	M - 4.2.13	34	Odor/LFG Monitoring	ongoing	/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i	
43			Periodic LFG Monitoring		/		I-a		/		I-b		/		I-c		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i	
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		/	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		✓	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		✓	FRN	I-i	
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		✓	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		✓	C	NONE	
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		✓	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		✓	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		✓	C	NONE	
54	M - 4.9.3	109	Periodic Offsite Litter Pickup	ongoing																																				

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55	M - 4.9.3	110	Illegal Dumping Activities	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-d					✓	C	NONE		✓	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		✓	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		✓	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		✓	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		✓	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		✓	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		✓	C	NONE	
64																																								
82	Civil & Geotechnical Engineer																																							
83																																								
84																																								
85	M - 4.1.1	2	Grading Outside of Conceptual Grading Plan Area	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
86	M - 4.1.1	3	Unsuitable Material Removal/Buffer Zones	ongoing																																				
87	M - 4.1.1	4	Grading Outside of Landfill Footprint	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
88	M - 4.1.1	5	Grading Activity Compliance	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
89	M - 4.1.2	8	Landslide Guidelines	ongoing																																				
90	M - 4.1.2	9	Soil Stabilization	ongoing																																				
91	M - 4.1.4	10	Landfill Design	ongoing																																				
92	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		/	NA	NONE	
93	M - 4.1.5	12	Geologic Hazards - Liquefaction	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
94	M - 4.1.5	13	Design/Construction-Liquefaction	ongoing																																				
95	M - 4.1.5	14	Design/Construction-Containment Structures	ongoing																																				
96	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		✓	C	NONE	
97	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		✓	C	NONE	
98	M - 4.1.6	17	Final Slope Factors of Safety	ongoing																																				

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99	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		✓	FRN	I-i	
100	M - 4.3.2	47	Landfill Liner	ongoing																																				
101	M - 4.3.2	48	Landfill Liner	ongoing																																				
102	M - 4.3.2	54	Preliminary Closure/Postclosure Plan	status																																				
103	M - 4.3.2	55	Landfill Design/Operation/Final Closure Monitoring	status																																				
104	M - 4.3.2	56	Cover Application	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
105	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		✓	C	NONE	
106	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		✓	FRN	I-i	
107																																								
108	Hydrologist																																							
109																																								
110																																								
111	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		/	NA	NONE	
112	M - 4.3.1	36	Surface Water Infiltration Minimization	ongoing																																				
113	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		✓	C	I-i	
114	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		✓	C	I-i	
115	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		✓	C	I-i	
116	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		✓	C	I-i	
117	M - 4.3.1	41	Surface Water Collection System	ongoing																																				
118	M - 4.3.1	42	Surface Water Quality Monitoring	ongoing																																				
119	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		✓	FRN	I-i	
120	M - 4.3.1	44	Final Landfill Cover	ongoing																																				
121	M - 4.3.1	45	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		✓	FRN	I-i	
122	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		✓	FRN	I-i	
123	M - 4.3.2	49	Interception of Groundwater Seepage	ongoing																																				
124	M - 4.3.2	50	LCRS/Leachate Monitoring	ongoing																																				
125	M - 4.3.2	51	LCRS Monitoring	ongoing																																				
126																																								
127	Biologist																																							

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128																																													
129																																													
130	M - 4.1.1	6	Slope Erosion Control	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d					✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i							
131	M - 4.2.11	23	Revegetation/Excavation	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d					✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i							
132	M - 4.2.12		Temporary Vegetation Cover	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d					✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i							
133	M - 4.4.1	60	Coastal Sage Scrub Mitigation Plan	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	R	✓	FRN	I-i						
134	M - 4.4.1	61	Coastal Sage Scrub Seeding	ongoing																																									
135	M - 4.4.1	62	Mariposa Lily Mitigation Plan	ongoing	/				/				/				/				/			/					/				/				/								
136	M - 4.4.1	63	San Diego Horned Lizard Mitigation	ongoing	/				/				/				/				/			/					/				/				/								
137	M - 4.4.1	64	California Gnatcatcher Surveys	ongoing	/				/				/				/				/			/					/				/				/								
138	M - 4.4.1	65	Least Bell's Vireo Surveys	ongoing	/				/				/				/				/			/					/				/				/								
139	M - 4.4.1	66	Western Burrowing Owl Surveys	ongoing	/				/				/				/				/			/					/				/				/								
140	M - 4.4.1	67	Migratory Bird Treaty Act	ongoing	/				/				/				/				/			/					/				/				/								
141	M - 4.4.1	68	Raptor Nests Habitat	ongoing	/				/				/				/				/			/					/				/				/								
142	M - 4.4.3	72	Native Tree Mitigation	ongoing																																									
143	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		✓	C	NONE		✓	C	NONE		
144	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		✓	C	NONE		✓	C	NONE		
145	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		✓	C	NONE		✓	C	NONE		
146	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		✓	C	NONE		✓	C	NONE		
147	M - 4.4.3	77	Backfill Material	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		
148	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		✓	C	NONE		✓	C	NONE		
149	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		✓	C	NONE		✓	C	NONE		
150	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		✓	C	NONE		✓	C	NONE		
151	M - 4.4.3	81	Irrigation System	ongoing																																									
152	M - 4.4.3	82	Annual Tree Monitoring Report	annual																																									
153	M - 4.9.2	96	Vector Activity Monitoring	ongoing																																									
154	M - 4.9.2	97	Vector Elimination	ongoing																																									
155	M - 4.9.2	98	Fly Control	ongoing																																									
156	M - 4.9.2	99	Rodent Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		

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157	M - 4.9.2	100	Operational Vector-Limiting Activity	ongoing																																															
158	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		✓	C	NONE		✓	C	NONE		✓	C	NONE				
159	M - 4.9.2	102	Storage of Vector-Attracting Items	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
160	M - 4.9.2	103	Salvaged Material Storage-Vector Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE				
161	M - 4.9.2	104	Periodic Vector Inspections	ongoing																																															
162	M - 4.9.2	105	Implementation of Vector Control Measures	ongoing																																															
163																																																			
164	Air Quality & Noise Specialist																																																		
165																																																			
166																																																			
167	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		✓	C	NONE		✓	C	NONE		✓	C	NONE				
168	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		/	NA	NONE		/	NA	NONE		/	NA	NONE				
169	M - 4.2.11	20	Dust Lofting Minimization	ongoing																																															
170	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		✓	C	NONE		✓	C	NONE		✓	C	NONE				
171	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		✓	C	NONE		✓	C	NONE		✓	C	NONE				
172	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		✓	C	NONE		✓	C	NONE		✓	C	NONE				
173	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		/	NA	NONE		/	NA	NONE		/	NA	NONE				
174	M - 4.2.12	25	Refuse Trucks-Maintenance	ongoing																																															
175	M - 4.2.12		Refuse Trucks-Engine	ongoing																																															
176	M - 4.2.12		Refuse Trucks-Fee Schedule	ongoing																																															
177	M - 4.2.12		Refuse Trucks-Fee Schedule Delivery Time	ongoing																																															
178	M - 4.2.12		Refuse Trucks-Idling	ongoing																																															
179	M - 4.2.12		Refuse Trucks-Emissions	ongoing																																															
180	M - 4.2.12	26	Truck Travel and Fugitive Dust Emissions	ongoing																																															
181	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																																															
182	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																																															
183	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																																															
184	M - 4.5.2	83	Landfill Hours	info	/			/			/			/			/			/			/			/			/			/			/			/			/			/			/				

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185	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		✓	C	NONE	
186																																								
187	Hydrology, Hazardous Waste / Risk of Upset																																							
188																																								
189																																								
190	M - 4.3.2	53	Groundwater Monitoring Wells	ongoing																																				
191	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		✓	C	NONE	
192	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		/	NA	NONE	
193	M - 4.9.1	90	Refuse Inspection Program	ongoing																																				
194	M - 4.9.1	91	Hazardous Waste Load-Checking	status																																				
195	M - 4.9.1	93	Hazardous Waste Detection Training	status																																				
196	M - 4.9.1	94	Spill Response Program	status																																				
197	M - 4.9.4	115	Safety Inspections/Checklists	ongoing																																				
198	M - 4.9.4	118	Accident/Injury reports, Inspections	status																																				
199	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		✓	FRN	I-i	
200	M - 4.9.4	123	Personal Protective Equipment	ongoing																																				
201	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		✓	C	I-i	
202	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		✓	C	NONE	
203	M - 4.14.1	148	Hydrant Installation	ongoing																																				
204																																								
205	Archaeologist																																							
206																																								
207																																								
208	M - 4.19.1	183	Archaeological Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
209	M - 4.19.1	184	Onsite Archaeologist	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
210	M - 4.19.1	185	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
211	M - 4.19.1	186	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
212																																								
213	Paleontologist																																							
214																																								
215																																								

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216	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		/	NA	NONE	
217	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		/	NA	NONE	
218	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		✓	C	NONE	
219	M - 4.19.2	190	Paleontological Resources Recovery	ongoing																																				
220	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		✓	C	I-i	

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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		✓	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		✓	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		/		I-i		/		I-i
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		/		I-i		/		I-i
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		/		I-i		/		I-i
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		/		I-i		/		I-i
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		✓	C	NONE		✓	C	NONE
15	Revegetation - 44.F	44.F	Revegetation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
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		✓	C	NONE		✓	C	NONE
17	Fugitive Dust - 45.F	45.F	Inactive Areas Monitoring	ongoing	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	R	✓	FRN	I-d					✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	R	✓	FRN	I-i		✓	FRN	I-i	
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		✓	C	NONE		✓	C	NONE
19	Litter Control - 46.A - .D	46A-D	Litter Control Program	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-d		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	FRN	I-i		✓	FRN	I-i
20	Gas - 52	52	Landfill Gas Collection System	ongoing	✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d		✓	C	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h	R	✓	FRN	I-i		✓	FRN	I-i
21	Traffic - 57	57	Traffic Improvements	status	✓	C	NONE		✓	C	NONE		✓	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		✓	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		✓	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		✓	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		✓	C	NONE		✓	C	NONE
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																																							

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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	R	✓	FRN	I-d	✓	FRN	I-e	✓	FRN	I-f	✓	FRN	I-g	✓	FRN	I-h	R	✓	FRN	I-i								
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	✓	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	✓	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	✓	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	✓	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	✓	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	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	
57	Air Quality - 6.03		Dust Emission Minimization	ongoing	✓	C	NONE	✓	FRN	I-b	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	FRN	I-g	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	
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	✓	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	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	

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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	✓	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	✓	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	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	FRN	I-f	✓	FRN	I-g	✓	FRN	I-h	R	✓	FRN	I-i				
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	R	✓	FRN	I-i			
77	Odor/Landfill Gas – 7.07		Gas Recovery and Sale	status	✓	C	I-a	✓	C	I-b	✓	C	I-c		✓	C	I-d	✓	C	I-e	✓	FRN	I-f	✓	FRN	I-g	✓	FRN	I-h	R	✓	FRN	I-i			
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	✓	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	/			/			/			/			/			/			/			/			/							
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	✓	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	✓	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	✓	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	✓	C	NONE	✓	C	NONE		
91	Visual – 10.11		Periodic Litter Pickup	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	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	✓	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	✓	C	NONE	✓	C	NONE		
96	Recycling - 14.03		Tonnage Disposal Determination	info	/			/			/			/			/			/			/			/			/			/				

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97	Recycling - 14.04		Recycling-Variou s 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	✓	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	✓	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	✓	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																																					
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	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i	
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	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i	
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	✓	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	✓	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	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i	✓	FRN	I-i	

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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		<	FRN	I-i	
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		<	C	I-i	
159	Surface Water - 2.04		Sedimentation Basin Capabilities	ongoing																																				
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	<	FRN	I-a		<	FRN	I-b		<	FRN	I-c		<	FRN	I-d		<	FRN	I-e		<	C	I-f		<	C	I-g		<	C	I-h		<	C	I-i	
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		<	C	I-i	
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		<	FRN	I-i	
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		<	C	I-i	
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		<	C	I-i	
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		<	C	I-i	
182	Groundwater - 3.11		Irrigation/Revegetation Management- Personnel Retention	ongoing																																				

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183	BIOTA – 4.10		Oak Tree Permit	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE					
184	BIOTA – 4.11		Oak Tree Mitigation Plan	ongoing	✓	C	NONE		✓	C	NONE		✓	C	I-c		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	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					
186	BIOTA – 4.20		Poultry Wire Screen	ongoing	✓	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					
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-h					
189	BIOTA – 4.28		Coastal Sage Scrub Seeding	ongoing																																
190	BIOTA – 4.29		San Diego Horned Lizard Mitigation	ongoing	✓	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					
192	BIOTA – 4.31		Least Bell's Vireo Surveys	ongoing	✓	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					
194	BIOTA – 4.33		Migratory Bird Treaty Act	ongoing	✓	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					
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	✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	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-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-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-h					
207	Visual – 10.08		Solid Waste Disposal Procedures	ongoing	✓	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					
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					
211	Visual – 10.09		Final Cover Composition Requirements	ongoing																																
212	Visual – 10.10		Buffer Zone Maintenance	ongoing																																
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					
215																																				

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					1/17/2017	Status*	Further Review Needed/Comments**	Resolved*	1/31/2017	Status*	Further Review Needed/Comments**	Resolved*	2/23/2017	Status*	Further Review Needed/Comments**	Resolved*	3/9/2017	Status*	Further Review Needed/Comments**	Resolved*	4/23/2017	Status*	Further Review Needed/Comments**	Resolved*	5/9/2017	Status*	Further Review Needed/Comments**	Resolved*	5/23/2017	Status*	Further Review Needed/Comments**	Resolved*				
216	Air Quality & Noise Specialist																																			
217																																				
218																																				
219	Fugitive Dust - 45.F	45.F	Fugitive Dust Monitoring	ongoing	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE	✓	C	NONE		
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	✓	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	✓	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	✓	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	✓	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	✓	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	✓	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	✓	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	✓	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	✓	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	✓	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	✓	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	✓	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																																				
249																																				

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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	
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																																				

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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		✓	C	I-i		
287	IMP - Part VII.B	IMP7	Archaeological/Paleontological-Report Submission	ongoing																																					

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## **Appendix I**

### **Further Review Needed Comments: Reference I-f through I-i Second Quarter 2017 Site Visits**

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Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	Q – B.2.c		City Planning	<p>I-f through I-i: The buttress design plans and engineering documents to support Cell CC-4A Part 3 adjacent native slopes were under review by the County Department of Public Works Civil Engineering and Permitting sections. The buttress is outside of the prior-approved landfill footprint.</p> <p>I-f: Waste was being placed in Cells CC-4 Part 1 and CC-3B. Excavation was underway moving soil from the future Cell CC-4 Part 2 area. There were 14 scrapers moving soil. The existing access roads were being used for disposal operations.</p> <p>I-g: Waste was being placed in Cell CC-4 Part 1 with three tippers operating. Thirteen scrapers were excavating soil from the Cell CC-4 Part 2 area and moving it to a stockpile near the eastside drainage area. Temporary access roads to the disposal area were modified as the fill progressed.</p> <p>I-h: Waste disposal was occurring in Cell CC-4 Part 1. Excavation of Cell CC-4 Part 2 was still underway with 16 scrapers moving soil.</p> <p>I-i: Waste disposal was occurring in Cell CC-4 Part 1. Cell CC-4 Part 2 construction was delayed due to a landslide on the western slope. Temporary access roads were constructed.</p>
		Geology - 1.07	County DPW EPD/SCL-LEA	I-f through I-i: See Q – B.2.c above.
		Geology - 1.12	County DPW EPD/SCL-LEA	I-f through I-i: See Q – B.2.c above.
	Q - C.3.h		City Planning	I-f through I-i: As the access road lengthens from the scales to the operating disposal area, the roadway needs to be surfaced with recycled asphalt, aggregate materials, or soft stabilization products in order to minimize the length of untreated dirt. The temporary construction roads need the use of a soil stabilizer product to control dust. The use of water trucks was not always effective.
	Q - C.10.c		City Planning	<p>I-f: The gas-to-energy plant was using 7966 SCFM of recovered landfill gas, 50.0% CH<sub>4</sub>, 1.66% O<sub>2</sub>. The facility was at 100% production. Flare 1 - 2369 SCFM; Flare 3 - shut down; Flare 9 - 3197 SCFM; Flare 10 - 3204 SCFM. The total volume of landfill gas recovered was 16,736 SCFM.</p> <p>I-g: The gas-to-energy plant was using 8797 SCFM of recovered landfill gas, 50.0% CH<sub>4</sub>, 1.66% O<sub>2</sub>. The facility was at 100% production. Flare 1 - 1771 SCFM; Flare 3 - shut down; Flare 9 - 2807 SCFM; Flare 10 - 2863 SCFM. The total volume of landfill gas recovered was 16,238 SCFM.</p> <p>I-h: The gas-to-energy plant was using 8833 SCFM of recovered landfill gas, 47.0% CH<sub>4</sub>. The facility was at 100% production. Flare 1 - 2084 SCFM; Flare 3 - shut down; Flare 9 - 3210 SCFM; Flare 10 - 3223 SCFM. The total volume of landfill gas recovered was 17,350 SCFM.</p> <p>I-i: The gas-to-energy plant was using 9038 SCFM of recovered landfill gas, 46.0% CH<sub>4</sub>. The facility was at 100% production. Flare 1 - 3304 SCFM; Flare 3 - shut down; Flare 9 - 3884 SCFM; Flare 10 - 3742 SCFM. The total volume of landfill gas recovered was 19,968 SCFM.</p> <p>I-f through I-i: The quantity of landfill gas recovered during our monitoring has increased from a high of 14,557 SCFM during the 1st Quarter of 2017 to a high of 19,968 SCFM during the 2nd Quarter. This could be due to the use of Posi-Shell and Closure Turf to seal the slopes and decks in CC-3A and CC-3B and the addition of gas collection under the Closure Turf and additional vertical wells.</p>
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-f through I-i: See Q - C.10.c above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager		Gas - 52	County DPW EPD/SCL-LEA County Forester Fire Warden	I-f through I-i: See Q - C.10.c above.
	T-4		City Planning, City Fire Department	I-f through I-i: 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.
		Fire Service - 12.03	County DPW EPD/SCL-LEA County Forester Fire Warden	I-f through I-i: See T-4 above.
	M - 4.1.1 / 7		City Planning, DOGGR	I-f through I-i: The two old oil well steel casings in the area north of the office site have been covered with stockpiled soil. The lowering of the well casings and permanent abandonment should be done when the stockpiled soil is removed and the final grade elevation for future liner installation is reached.  The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site should be reabandoned when the other two wells are reabandoned. None of the wells were leaking oils or gas, nor pose a current hazard.
		Re-abandonment Procedures	County Planning, County DPW EPD/SCL-LEA, DOGGR	I-f through I-i: See M - 4.1.1 / 7 above.
	M - 4.2.12 / 28		City Planning/SCAQMD	I-f through I-i: Alternatives to hydroseeding on interim and inactive slopes and decks for slope stability and dust control were being used due to the drought. Posi-Shell has been applied to areas in Cell CC-3A and Cell CC-3B. The installation of Closure Turf has been done on some of the Cell CC-3A and Cell CC-3B south-facing slopes. These systems have been shown to control dust, erosion and surface emissions.
		Fugitive Dust - 45.F	County DPH/County LEA County DPW-EPD County Biologist	I-f through I-i: See M - 4.2.12 / 28 above.
	M -4.2.13/ 29, 30, 32, 34		City Planning/SCL-LEA/SCAQMD	I-f through I-i: 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 will be reported.
		Amendment 45.N-4.a, 4.c, 4.d	County DPW-EPD	I-f through I-i: See M -4.2.13/ 29, 30, 32, 34 above.
		Amendment 45.N-5	County DPW-EPD	I-f through I-i: 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	<p>I-f: There were no landfill odors detected around the school or in the adjacent neighborhood from 6:30 to 7:30 a.m. Greenwaste odor was detected at Titian and Orozco at 7:15 a.m. coming from the south. A liquid tote container at the Flare 9 and 10 blowers' location was used for collecting condensate from a knockout vessel. The inlet opening was venting vapors causing a strong localized odor.</p> <p>I-g: There were no landfill odors detected around the school, or the immediate adjacent neighborhood between 6:45 and 7:45 a.m. The condensate liquids tote tanks (two tanks) at Flares 9 and 10 blowers had the tank inlets open to the atmosphere and were venting condensate vapors. A strong localized odor was detected. The lift pump at the sewer connection had strong localized liquid odors that drifted to the San Fernando Road wall. The rubber cover to seal the pump vault access panels was not being used.</p> <p>I-h: There were no landfill odors detected in the adjacent neighborhood or in the Cascades neighborhood between 6:30 and 7:30 a.m. There was a strong liquids odor coming from the sewer lift pump vault which could be detected at the San Fernando Road block wall. The rubber mat to cover the vault access panels was not being used. Localized odors were detected coming from Well CTC 625. Strong odors were detected on the top deck of Cell CC-3A coming from Well GW-2087 and Well 2088 area.</p> <p>I-i: There were no landfill odors detected around the school, in the adjacent neighborhood, or in the Cascades neighborhood between 6:15 and 7:30 a.m. Packer trucks were observed leaking liquids onto the pavement while waiting to enter the scales.</p>
		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-i through I-f: See M-4.2.13/33 above.
		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-i through I-f: See M-4.2.13/29, 30, 32, 33, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-i through I-f: See M-4.2.13/29, 30, 32, 33, and 34 above.
		Surface Water - 2.15	County DPW EPD/LARWQCB, SCL- LEA	<p>I-f through I-i: A preventative maintenance program with 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 should be performed on a monthly basis, with a summary report issued on a quarterly basis.</p> <p>I-f: The road to Flare 3 had significant erosion with deep ruts (greater than 12" deep) along the edge of the road. No lined drainage control V-ditch was in place. The westside drainage channel floor that was uplifting and walls that were cracking and shifting noted on the March 9th site monitoring were repaired. The floor concrete was removed and replaced, and any damaged walls fixed. The temporary basin below Cell CC-3B was cleared of sediment and waste debris. The low-flow outlet pipe was still blocked with debris and sediment. The terminal basin had portions of the basin cleared of sediment. The outlet risers have not been cleared of sediment or debris. Capacity for future storm events had been reduced.</p> <p>I-g: The Old City landfill had deep erosion ribbons on the slopes near the office parking area. The Cell CC-3A front slopes also had deep erosion ribbons. Both of these areas are soil stockpiles. The Old City landfill's winter storm impacts to the HDPE drainage downcomers and piping were repaired. A concrete section of the Deck B drainage channel that did not drain was removed and replaced. The San Fernando Road retaining wall had additional soil slough down onto the wall fence.</p>

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager				<p>I-h: The Basin D outlet channel liner was still lifted with tumbleweeds and debris under the liner. Maintenance had not yet been performed. Basin A had standing water at the outlet risers. The San Fernando Road retaining wall had additional sloughing of soil, and soil and rock were topping the fence in multiple locations. Republic's consulting engineers are preparing a report to correct the current condition.</p> <p>I-i: The terminal basin inlet was blocked and there was standing water in back of a dirt berm. There was no pump observed at the berm. There was standing water at the gabion wall inside the basin and at the outlet risers.</p>
	M - 4.4.2/69		City Planning	I-f through I-i: The City Attorney, City DWP, City Recreation and Parks, and Republic were finalizing an agreement to use the Chatsworth Reservoir as a wetland mitigation site. The agreement, once finalized, will be delivered to the DWP Board for approval and then to the City Council for approval. Republic is preparing an addendum to the MND.
		Biota - 4.4.3	CDFW	I-f through I-i: See M - 4.4.2 / 69 above.
	M - 4.9.3 / 110		City Planning/City LEA	I-f through I-i: Sierra Highway near the I-14 overpass had no illegal dumping or windblown litter observed during the 2nd Quarter monitoring period.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Civil and Geotechnical Engineer</b>	M - 4.1.1 / 2		City Building and Safety City Planning	I-f through I-i: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 4		City Planning/LARWQCB Cal Recycle	I-f through I-i: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-f through I-i: Future out-of-approved landfill footprint grading is proposed for a Cell CC-4 Part 3 buttress. Grading plans have been submitted to the County Department of Public Works for approval. These plans are under review by DPW Civil Engineering and Permitting sections. The only grading occurring in this quarter was for the development of Cell CC-4 Part 2 and the removal of stockpiled soil for waste cover from stockpiled soil in Cell CC-3A. These activities are inside the approved landfill footprint.
		Geology - 1.07	County DPW EPD/ County LEA	I-f through I-i: See M - 4.1.1 / 5 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-f through I-i: See M - 4.1.1 / 5 above.
	M - 4.1.6 / 18			I-f through I-i: The landfill perimeter boundary survey PVC pipe markers have been removed in areas where Edison pole grading took place, as well as near the Flare 11 site pad grading. These boundary markers have not been replaced. All markers should be replaced once the Cell CC-4 Part 3 landslide buttress is installed.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADBS City LEA	I-f through I-i: Access roads were being maintained around the working area for emergency access.
	M - 4.18 / 178		City Planning/City LEA	I-f through I-i: 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-f through I-i: See M - 4.18 / 178 above.
<b>Hydrologist</b>	M - 4.3.1/ 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-f through I-i: 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.  Cell CC-4 Part 2 had a drainage system to a low point sump.
		Surface Water - 2.03 Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-f through I-i: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-f through I-i: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-f through I-i: 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 / 41			<p>I-f and I-i: In the 1st Quarter, the slopes that were void of vegetation had straw wattles placed on them to control erosion. Rock gabions were constructed on the Old City South landfill access road, in the westside drainage channel and across the inlet and within the Terminal Basin to slow down the flow of water and drop out sediment. The erosion and sediment control systems performed as designed, and managed the rainwater and sediment. The erosion on the slopes was minimized due to the straw wattles. During the 2nd Quarter, the channel rock gabions and sediment were removed.</p> <p>Due to the extremely heavy rainfall in the 1st Quarter, the straw wattle slope erosion controls were not able to handle the high flows of water and sediment loading. Drainage ribbons were observed on most of the slopes, with exposed trash observed on some slopes. In the 2nd Quarter, slope erosion was being repaired.</p>
	M - 4.3.1 / 43		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	<p>I-f: Basin A had sediment being removed. Sediment was piled to dry and dried sediment was being trucked away. The outlet risers were not being cleaned. The outlet channel was cleaned and drainage pipes installed under a temporary road. Basin B had minor sediment in the basin with piles of debris and sediment observed along the back concrete walls. The temporary basin below Cell CC-3B was cleared of sediment and waste debris. The low-flow outlet pipe was blocked with debris and sediment. The terminal basin had sediment pushed into piles for draining water. Portions of the basin were cleared of sediment. The outlet risers had not been cleared of sediment nor debris. Capacity for future storm events had been reduced.</p> <p>I-g: The outlet channel of Basin A was functional with a dirt blockage removed. Drainage pipes were installed under a temporary dirt access road in the channel. The outlet risers had the rock plugged with sediment, and water was ponding. Soil was sloughing from the southern slope into the basin. The slope needs to be graded and stabilized. The sediment in the basin was removed. Basin B had ponding water at the outlet risers. The basin was cleared of sediment. The Cell CC-3B temporary basin was cleared of sediment and debris. The low-flow outlet was not cleaned and was blocked with debris and sediment.</p> <p>I-h: Basin A was cleared of sediment. The sloughed soil from the southern dirt slope was being removed. Slope repair was not yet done. There was standing water at the outlet riser. The risers and filter rock have not been cleaned. Basin B was cleared of sediment except for the area around the outlet risers and the two back walls farthest points. Basin D was clean and dry with no sediment. The terminal basin inlet was blocked with a soil berm to block water flow and allow yearly cleaning. All sediment was removed. The gabion wall and the outlet risers were covered with sediment and possibly plugged.</p> <p>I-i: Basin A had the bulk of sediment and construction slide soils removed. Minor clean-up of the basin is still needed. Basin B was cleared of sediment. There was no standing water in the basin. The terminal basin inlet was blocked by a dirt berm and there was standing water in back of it. There was standing water at the gabion wall inside the basin and at the outlet risers. The basin was free of sediment except for the outlet risers area. The risers were going to be modified in August to include a clean water skimming outlet system.</p>
		Surface Water - 2.10	LARWQCB / County DPW EPD	I-f through I-i: See M - 4.3.1 / 43 above.
		Surface Water - 2.14	LARWQCB / County DPW EPD	I-f through I-i: See M - 4.3.1 / 43 above. The current erosion control plans should be available for agency and monitor review.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Hydrologist	M - 4.3.1 / 45		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-f through I-i: Surface Water - 2.14 above.
	M - 4.3.1 / 46		City Planning/ LARWQCB CalRecycle PW-BOE	I-f through I-i: See 2.15 above.
Biologist	M - 4.1.1 / 6		City Planning/ LARWQCB CalRecycle SCL-LEA LADBS	I-f through I-i: See M - 4.2.12 / 28 above.
		Geology - 1.14	LARWQCB/ County Forester	I-f through I-i: See M - 4.2.12 / 28 above.
	M - 4.2.11 / 23		City Planning	I-f through I-i: See M - 4.2.12 / 28 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-f through I-i: See M - 4.2.12 / 28 above.
	M - 4.2.12		SCL-LEA/ City Planning	I-f through I-i: See M - 4.2.12 / 28 above.
		Revegetation - 44.A	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-f through I-i: See M - 4.2.12 / 28 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-f through I-i: See M - 4.2.12 / 28 above.
		Biota - 4.42	SCL-LEA	I-f through I-i: See M - 4.2.12 / 28 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-f through I-i: See M - 4.2.12 / 28 above.
		Visual - 10.08	County Forester	I-f through I-i: See M - 4.2.12 / 28 above.
	M - 4.4.1 / 60		City Planning	I-f: The County sage mitigation area slopes had significant erosion rails.  I-g: City Deck C sage mitigation was doing well, with sage coming back and all vegetation greening up from the season's rain. A minor amount of mustard weed needs to be removed. The City Deck C PM-10 oak trees were doing well. No understory planting has been done.  I-h: City Deck C sage mitigation was showing signs of sage regrowth and new plants under the salt bush.  I-f through I-i: No sage mitigation activity was performed in the County sage area.
		Biota - 4.27	County LEA/CDFW	I-f through I-i: See M - 4.4.1 / 60 above.
		Biota - 4.10	County LEA/CDFW	I-f through I-i: No Big-Cone Fir mitigation trees were monitored this quarter.

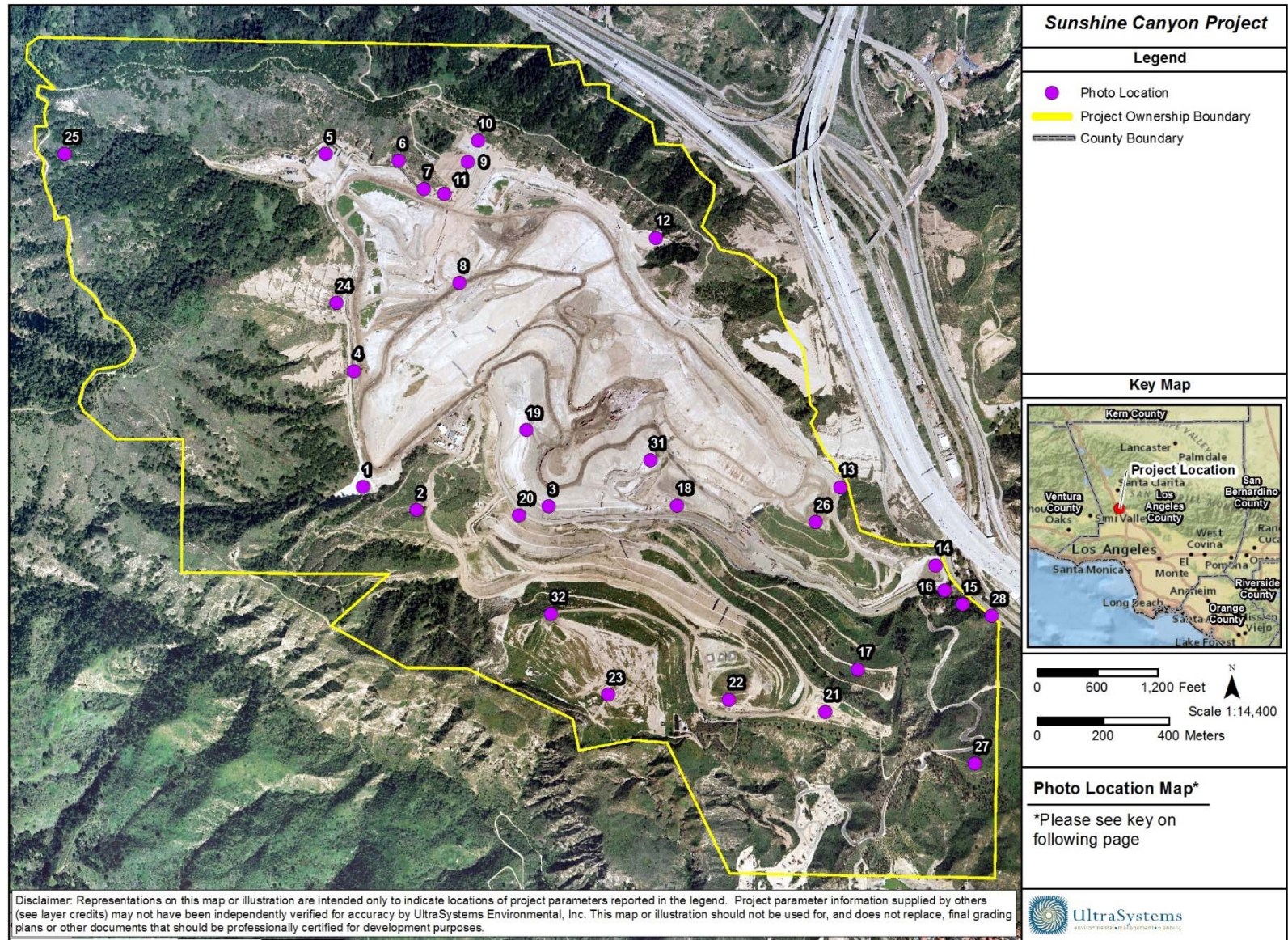
Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Biologist</b>	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-f through I-i: See T-4 above.
	M-4.9.4/125		City Planning/ CalRecycle Cal OSHA SCL-LEA	I-f through I-i: Throughout the 2nd Quarter 2017, the south perimeter oil field gate was observed to be locked.
<b>Paleontologist</b>	M-4.19.2/191		City Planning	I-f through I-i: The paleontologist was monitoring grading activities in and adjacent to Cell CC-4 Part 2 construction.
		Ecological Significance 62	County Planning	I-f through I-i: See M-4.19.2/191 above.

## Appendix II

### Relevant Site Photos

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Path: J:\Projects\5800\_Sunshine\_Canyon\MXD\PhotoLocations\5800\_Sunshine\_Canyon\_PhotoLocations\_Quarterly\_Report\_#1\_2016.mxd  
 Service Layer Credits: Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp., CAL FIRE, 2007, Republic, 2013, UltraSystems Environmental, Inc., 2016

April 27, 2016



## Photo Location Map Key

Map Location	Title	Photo Number
1.	Basin A Area	1-46
2.	Site Grading South of Basin A	-
3.	City Lined Drainage Lift Area	-
4.	Westside Drainage Channel	47-57
5.	Basin D Area	58-66
6.	Basin D Outlet Channel	67-75
7.	Edison Power Pole Sites	76-93
8.	County Top Deck	94-123
9.	Flares 8-11	124-152
10.	Gas-to-Energy Facility	-
11.	Flares 8-11 Adjacent Hillsides	-
12.	Basin B Area	153-176
13.	Eastside Drainage Channel	177-182
14.	Terminal Basin	183-235
15.	Sewer and Gray Water Area	236-237
16.	Leachate Treatment Facility	-
17.	Realigned Access Road	-
18.	Cell CC3B Area	238-263
19.	Cell CC3A and Cell CC4 Area	264-356
20.	Truck Scale and Office Facilities Area	357-372
21.	City Sage Mitigation – Deck C, and City PM-10 Oak Tree Mitigation	373-396
22.	City Sage Mitigation – Deck B	397-412
23.	City Sage Mitigation – Deck A	413-426
24.	County Sage Mitigation Area	427-437
25.	Big Cone Fir Mitigation	-
26.	Old City North	438-453
27.	Oak Tree Mitigation in Buffer Area	-
28.	San Fernando Road Frontage	454-469
29.	Offsite Illegal Dumping	470-496
30.	Offsite Greenwaste Odor Sources	497-503
31.	Site Working Areas	504-562
32.	General Site Area	563-669



**Photo 1: Basin A: April 18, 2017**



**Photo 2: Basin A: April 18, 2017**



**Photo 3: Slope Erosion near Basin A: April 18, 2017**



**Photo 4: Slope Erosion near Basin A: April 18, 2017**





**Photo 5: Slope Erosion near Basin A: April 18, 2017**



**Photo 6: Slope Erosion near Basin A: April 18, 2017**



**Photo 7: Slope Erosion near Basin A: April 18, 2017**



**Photo 8: Slope Erosion near Basin A: April 18, 2017**





**Photo 9: Basin A: April 18, 2017**



**Photo 10: Basin A: April 18, 2017**



**Photo 11: Basin A: April 18, 2017**



**Photo 12: Basin A Outlet: April 18, 2017**





**Photo 13: Basin A Outlet: April 18, 2017**



**Photo 14: Basin A: May 9, 2017**



**Photo 15: Basin A: May 9, 2017**



**Photo 16: Basin A: May 9, 2017**



**Photo 17: Basin A: May 9, 2017**



**Photo 18: Basin A Native Hillsides: May 9, 2017**



**Photo 19: Basin A Native Hillsides: May 9, 2017**



**Photo 20: Basin A Native Hillsides: May 9, 2017**





**Photo 21: Basin A: May 9, 2017**



**Photo 22: Basin A: May 9, 2017**



**Photo 23: Basin A: May 9, 2017**



**Photo 24: Basin A Native Hillsides: May 9, 2017**





**Photo 25: Basin A Outlet: May 9, 2017**



**Photo 26: Basin A Outlet Channel: May 9, 2017**



**Photo 27: Basin A Outlet Channel: May 9, 2017**



**Photo 28: Basin A: May 23, 2017**





**Photo 29: Basin A: May 23, 2017**



**Photo 30: Basin A: May 23, 2017**



**Photo 31: Basin A: May 23, 2017**



**Photo 32: Basin A: May 23, 2017**





**Photo 33: Basin A: May 23, 2017**



**Photo 34: Basin A: May 23, 2017**



**Photo 35: Basin A: May 23, 2017**



**Photo 36: Basin A: May 23, 2017**





**Photo 37: Basin A: May 23, 2017**



**Photo 38: Basin A: May 23, 2017**



**Photo 39: Basin A: May 23, 2017**



**Photo 40: Basin A: May 23, 2017**





**Photo 41: Basin A: May 23, 2017**



**Photo 42: Basin A: May 23, 2017**



**Photo 43: Basin A: June 20, 2017**



**Photo 44: Basin A: June 20, 2017**





**Photo 45: Basin A: June 20, 2017**



**Photo 46: Basin A: June 20, 2017**



**Photo 47: Westside Drainage Channel Repair: April 18, 2017**



**Photo 48: Westside Drainage Channel Repair: April 18, 2017**





**Photo 49: Westside Drainage Channel Repair: April 18, 2017**



**Photo 50: Westside Drainage Channel Repair: April 18, 2017**



**Photo 51: Westside Drainage Channel Repair: April 18, 2017**



**Photo 52: Westside Drainage Channel Repair: April 18, 2017**





**Photo 53: Westside Drainage Channel Repair: April 18, 2017**



**Photo 54: Westside Drainage Channel Repair: April 18, 2017**



**Photo 55: Westside Drainage Channel Gabions: May 9, 2017**



**Photo 56: Westside Drainage Channel Gabions: May 9, 2017**





**Photo 57: Westside Drainage Channel Gabions: May 9, 2017**



**Photo 58: Basin D: April 18, 2017**



**Photo 59: Basin D: April 18, 2017**



**Photo 60: Material Storage near Basin D: April 18, 2017**





**Photo 61: Material Storage near Basin D: April 18, 2017**



**Photo 62: Material Storage near Basin D: April 18, 2017**



**Photo 63: Material Storage near Basin D: April 18, 2017**



**Photo 64: Material Storage near Basin D: April 18, 2017**





**Photo 65: Basin D: May 23, 2017**



**Photo 66: Material Storage near Basin D: May 23, 2017**



**Photo 67: Basin D Outlet Channel: April 18, 2017**



**Photo 68: Basin D Outlet Channel: April 18, 2017**





**Photo 69: Basin D Outlet Channel: April 18, 2017**



**Photo 70: Basin D Outlet Channel: April 18, 2017**



**Photo 71: Basin D Outlet Channel: May 23, 2017**



**Photo 72: Basin D Outlet Channel: May 23, 2017**





**Photo 73: Basin D Outlet Channel: May 23, 2017**



**Photo 74: Basin D Outlet Channel: May 23, 2017**



**Photo 75: Basin D Outlet Channel: May 23, 2017**



**Photo 76: Flare 3 Access Road Erosion Ruts: April 18, 2017**





**Photo 77: Flare 3 Access Road Erosion Ruts: April 18, 2017**



**Photo 78: Flare 3 Access Road Erosion Ruts: April 18, 2017**



**Photo 79: Flare 3 Access Road Erosion Ruts: April 18, 2017**



**Photo 80: Flare 3 Access Road Erosion Ruts: April 18, 2017**





**Photo 81: Flare 3 Access Road Erosion Ruts: April 18, 2017**



**Photo 82: Flare 3 Access Road Erosion Ruts: April 18, 2017**



**Photo 83: Flare 3: April 18, 2017**



**Photo 84: Flare 3: April 18, 2017**





**Photo 85: Flare 3 Site: April 18, 2017**



**Photo 86: Flare 3 Site: April 18, 2017**



**Photo 87: Flare 3 Site: April 18, 2017**



**Photo 88: Edison Pole 37 Drainage Slide: April 18, 2017**





**Photo 89: Edison Pole 37 Drainage Slide: April 18, 2017**



**Photo 90: Edison Pole 37 Drainage Slide: April 18, 2017**



**Photo 91: Flare 3 Site: May 9, 2017**

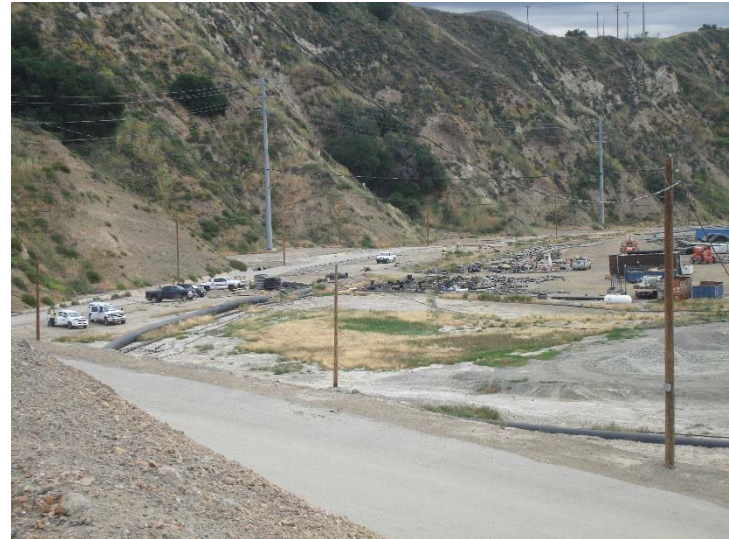


**Photo 92: Flare 3 Site: May 9, 2017**





**Photo 93: Flare 3 Site: May 9, 2017**



**Photo 94: County Top Deck: April 18, 2017**



**Photo 95: County Top Deck: April 18, 2017**



**Photo 96: County Top Deck: April 18, 2017**





**Photo 97: County Top Deck: April 18, 2017**



**Photo 98: County Top Deck: April 18, 2017**



**Photo 99: County Top Deck: April 18, 2017**



**Photo 100: County Top Deck: April 18, 2017**





**Photo 101: County Top Deck: April 18, 2017**



**Photo 102: County Top Deck: April 18, 2017**



**Photo 103: County Top Deck: April 18, 2017**



**Photo 104: County Top Deck: April 18, 2017**





**Photo 105: County Top Deck: May 9, 2017**



**Photo 106: County Top Deck: May 9, 2017**



**Photo 107: County Top Deck: May 9, 2017**



**Photo 108: County Top Deck: May 9, 2017**





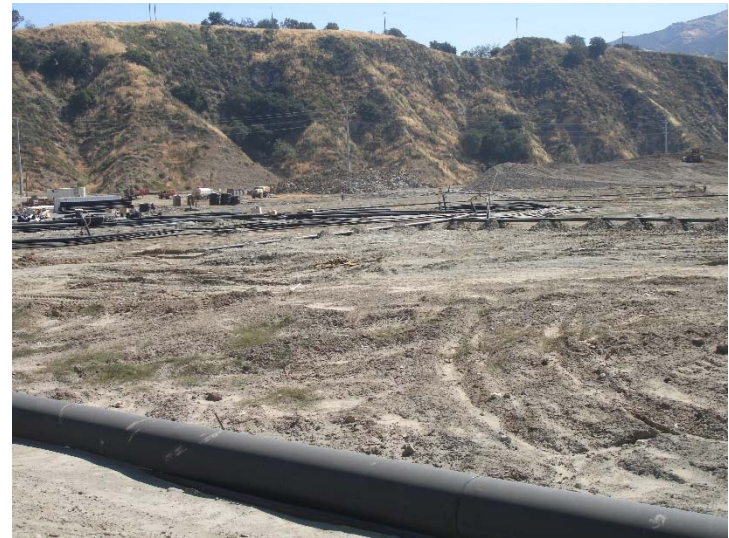
**Photo 109: County Top Deck: May 9, 2017**



**Photo 110: County Top Deck: May 9, 2017**



**Photo 111: County Top Deck: May 23, 2017**



**Photo 112: County Top Deck: May 23, 2017**





**Photo 113: County Top Deck: May 23, 2017**



**Photo 114: County Top Deck: May 23, 2017**



**Photo 115: County Top Deck: May 23, 2017**



**Photo 116: County Top Deck: May 23, 2017**





**Photo 117: County Top Deck: May 23, 2017**



**Photo 118: County Top Deck: May 23, 2017**



**Photo 119: County Top Deck: May 23, 2017**



**Photo 120: County Top Deck: May 23, 2017**





**Photo 121: County Top Deck: May 23, 2017**



**Photo 122: County Top Deck near Stockpiled Soil: May 23, 2017**



**Photo 123: County Top Deck near Stockpiled Soil: May 23, 2017**



**Photo 124: Flare 11 Site Pad: April 18, 2017**





**Photo 125: Flare 11 Site Pad: April 18, 2017**



**Photo 126: Flare 11 Site Pad: April 18, 2017**



**Photo 127: Flare 11 Site Pad: April 18, 2017**



**Photo 128: Flare 11 Site Pad: April 18, 2017**





**Photo 129: Flare 11 Site Pad: April 18, 2017**



**Photo 130: Sunshine Gas Producers Facility: April 18, 2017**



**Photo 131: Sunshine Gas Producers Facility: April 18, 2017**



**Photo 132: Sunshine Gas Producers Facility: April 18, 2017**





**Photo 133: Flare 9 & 10 Blowers Liquids Tote Containers:  
April 18, 2017**



**Photo 134: Liquids Filter Systems: April 18, 2017**



**Photo 135: Liquids Filter Systems: April 18, 2017**



**Photo 136: Liquids Filter Systems: April 18, 2017**





**Photo 137: Flare 9 & 10 Blowers Liquids Tote Containers:  
May 9, 2017**



**Photo 138: Flare 11 Site: May 9, 2017**



**Photo 139: Flare 11 Site: May 9, 2017**



**Photo 140: Flare 11 Site: May 9, 2017**





**Photo 141: Old Flare Site: May 23, 2017**



**Photo 142: Old Flare Site: May 23, 2017**



**Photo 143: Old Flare Site: May 23, 2017**



**Photo 144: Flare 9 & 10 Blower Knockout Liquids: May 23, 2017**





**Photo 145: Flare 9 & 10 Blower Knockout Liquids: May 23, 2017**



**Photo 146: Vegetation at Flare 9 & 10 Equipment: May 23, 2017**



**Photo 147: Vegetation at Flare 9 & 10 Equipment: May 23, 2017**



**Photo 148: Future Flare 11 Site: May 23, 2017**





**Photo 149: Future Flare 11 Site: May 23, 2017**



**Photo 150: Future Flare 11 Site: May 23, 2017**



**Photo 151: Flare 9 & 10 Standby Power Supply: June 20, 2017**



**Photo 152: Flare 9 & 10 Standby Power Supply: June 20, 2017**





**Photo 153: Basin B: April 18, 2017**



**Photo 154: Basin B: April 18, 2017**



**Photo 155: Basin B: April 18, 2017**



**Photo 156: Basin B: April 18, 2017**





**Photo 157: Basin B Native Hillsides: April 18, 2017**



**Photo 158: Basin B Native Hillsides: April 18, 2017**



**Photo 159: Basin B Native Hillsides: April 18, 2017**



**Photo 160: Basin B Native Hillsides: April 18, 2017**





**Photo 161: Basin B Native Hillsides: April 18, 2017**



**Photo 162: Basin B Native Hillsides: April 18, 2017**



**Photo 163: Basin B Native Hillsides: April 18, 2017**



**Photo 164: Basin B Native Hillsides: April 18, 2017**





**Photo 165: Basin B: May 9, 2017**



**Photo 166: Basin B: May 9, 2017**



**Photo 167: Basin B: May 9, 2017**



**Photo 168: Basin B: May 9, 2017**





**Photo 169: Basin B Native Hillsides: May 9, 2017**



**Photo 170: Basin B: May 23, 2017**



**Photo 171: Basin B: May 23, 2017**



**Photo 172: Basin B: May 23, 2017**





**Photo 173: Basin B: May 23, 2017**



**Photo 174: Basin B: May 23, 2017**



**Photo 175: Basin B: June 20, 2017**



**Photo 176: Basin B: June 20, 2017**





**Photo 177: Eastside Drainage Channel to Terminal Basin:  
May 9, 2017**



**Photo 178: Eastside Drainage Channel to Terminal Basin:  
May 9, 2017**



**Photo 179: Eastside Drainage Channel to Terminal Basin:  
May 9, 2017**



**Photo 180: Eastside Drainage Channel to Terminal Basin:  
May 9, 2017**





**Photo 181: Eastside Drainage Channel to Terminal Basin:  
May 9, 2017**



**Photo 182: Eastside Drainage Channel to Terminal Basin:  
May 9, 2017**



**Photo 183: Terminal Basin: April 18, 2017**



**Photo 184: Terminal Basin: April 18, 2017**



**Photo 185: Terminal Basin: April 18, 2017**



**Photo 186: Terminal Basin: April 18, 2017**



**Photo 187: Terminal Basin: April 18, 2017**



**Photo 188: Terminal Basin: May 9, 2017**





**Photo 189: Terminal Basin: May 9, 2017**



**Photo 190: Terminal Basin: May 9, 2017**



**Photo 191: Terminal Basin: May 9, 2017**



**Photo 192: Terminal Basin: May 9, 2017**





**Photo 193: Terminal Basin: May 9, 2017**



**Photo 194: Terminal Basin: May 9, 2017**



**Photo 195: Terminal Basin: May 9, 2017**



**Photo 196: Terminal Basin: May 9, 2017**





**Photo 197: Terminal Basin: May 9, 2017**



**Photo 198: Terminal Basin: May 9, 2017**



**Photo 199: Terminal Basin: May 9, 2017**



**Photo 200: Terminal Basin: May 9, 2017**





**Photo 201: Terminal Basin Inlet: May 23, 2017**



**Photo 202: Terminal Basin Inlet: May 23, 2017**



**Photo 203: Terminal Basin Inlet: May 23, 2017**



**Photo 204: Terminal Basin Inlet: May 23, 2017**





**Photo 205: Terminal Basin: May 23, 2017**



**Photo 206: Terminal Basin: May 23, 2017**



**Photo 207: Terminal Basin: May 23, 2017**



**Photo 208: Terminal Basin: May 23, 2017**





**Photo 209: Terminal Basin: May 23, 2017**



**Photo 210: Terminal Basin: May 23, 2017**



**Photo 211: Terminal Basin: May 23, 2017**



**Photo 212: Terminal Basin: May 23, 2017**





**Photo 213: Terminal Basin: May 23, 2017**



**Photo 214: Terminal Basin: May 23, 2017**



**Photo 215: Terminal Basin: May 23, 2017**



**Photo 216: Terminal Basin: May 23, 2017**





**Photo 217: Terminal Basin: May 23, 2017**



**Photo 218: Main Access Road Slope near Terminal Basin:  
May 23, 2017**



**Photo 219: Main Access Road Slope near Terminal Basin:  
May 23, 2017**



**Photo 220: Terminal Basin: June 20, 2017**





**Photo 221: Terminal Basin: June 20, 2017**



**Photo 222: Terminal Basin: June 20, 2017**



**Photo 223: Terminal Basin: June 20, 2017**



**Photo 224: Terminal Basin: June 20, 2017**





**Photo 225: Terminal Basin: June 20, 2017**



**Photo 226: Terminal Basin: June 20, 2017**



**Photo 227: Terminal Basin: June 20, 2017**



**Photo 228: Terminal Basin: June 20, 2017**





**Photo 229: Terminal Basin: June 20, 2017**



**Photo 230: Terminal Basin: June 20, 2017**



**Photo 231: Terminal Basin: June 20, 2017**



**Photo 232: Terminal Basin: June 20, 2017**





**Photo 233: Terminal Basin: June 20, 2017**



**Photo 234: Terminal Basin: June 20, 2017**



**Photo 235: Terminal Basin: June 20, 2017**



**Photo 236: Potable Water Supply Leak: May 9, 2017**





**Photo 237: Potable Water Supply Leak: May 9, 2017**



**Photo 238: CC3B Temporary Basin: April 18, 2017**



**Photo 239: CC3B Temporary Basin: April 18, 2017**



**Photo 240: CC3B Temporary Basin: April 18, 2017**





**Photo 241: CC3B Basin Drainage into Terminal Basin: April 18, 2017**



**Photo 242: Well Drilling on Slope Cell CC3B: April 18, 2017**



**Photo 243: Well Drilling on Deck Cell CC3B: April 18, 2017**



**Photo 244: Cell CC3B Temporary Basin: May 9, 2017**





**Photo 245: Cell CC3B Temporary Basin: May 9, 2017**



**Photo 246: Cell CC3B Temporary Basin: May 9, 2017**



**Photo 247: Cell CC3B Temporary Basin: May 9, 2017**



**Photo 248: Cell CC3B Temporary Basin: May 9, 2017**





**Photo 249: Cell CC3B Temporary Basin: May 9, 2017**



**Photo 250: Cell CC3B Temporary Basin: May 9, 2017**



**Photo 251: Cell CC3B Temporary Basin: May 9, 2017**



**Photo 252: CC3B Temporary Basin Plugged Low-Flow Outlet to Terminal Basin: May 9, 2017**





**Photo 253: CC3B Temporary Basin High-Flow Outlet to Terminal Basin: May 9, 2017**



**Photo 254: CC3B Slope Well Drilling: May 9, 2017**



**Photo 255: CC3B Top Deck Well Drilling**



**Photo 256: CC3B Top Deck: May 9, 2017**





**Photo 257: CC3B Top Deck: May 9, 2017**



**Photo 258: CC3B Top Deck: May 9, 2017**



**Photo 259: CC3B Top Deck: May 9, 2017**



**Photo 260: CC3B Top Deck: May 9, 2017**





**Photo 261: CC3B Top Deck: May 9, 2017**



**Photo 262: CC3B Top Deck: May 9, 2017**



**Photo 263: CC3B Top Deck: May 9, 2017**



**Photo 264: Well Drilling on CC3A Top Deck: April 18, 2017**



**Photo 265: CC3A Slope Posi-Shell: April 18, 2017**



**Photo 266: CC3A Slope Posi-Shell: April 18, 2017**



**Photo 267: CC3A Slope Posi-Shell: April 18, 2017**



**Photo 268: CC4A Part 2 Excavation: May 9, 2017**





**Photo 269: CC4A Part 2 Excavation: May 9, 2017**



**Photo 270: CC4A Part 2 Excavation: May 9, 2017**



**Photo 271: CC4A Part 2 Excavation: May 9, 2017**



**Photo 272: CC4A Part 2 Excavation: May 9, 2017**



**Photo 273: CC4A Part 2 Excavation: May 9, 2017**



**Photo 274: CC4A Part 2 Excavation: May 9, 2017**



**Photo 275: CC4A Part 2 Excavation: May 9, 2017**



**Photo 276: CC4A Part 2 Excavation: May 9, 2017**





**Photo 277: CC4A Part 2 Excavation: May 9, 2017**



**Photo 278: CC4A Part 2 Excavation: May 9, 2017**



**Photo 279: CC4A Part 2 Excavation: May 9, 2017**



**Photo 280: CC4A Part 2 Excavation: May 9, 2017**





**Photo 281: CC4A Part 2 Excavation: May 9, 2017**



**Photo 282: CC4A Part 2 Excavation Soil Stockpile Area:  
May 9, 2017**



**Photo 283: CC4A Part 2 Excavation Soil Stockpile Area:  
May 9, 2017**



**Photo 284: CC4A Part 2 Excavation Soil Stockpile Area:  
May 9, 2017**





**Photo 285: CC3A Soil Stockpile Erosion: May 9, 2017**



**Photo 286: CC3A Soil Stockpile Erosion: May 9, 2017**



**Photo 287: CC3A Soil Stockpile Erosion: May 9, 2017**



**Photo 288: CC3A Slope Repair: May 9, 2017**



**Photo 289: CC3A Slope Repair: May 9, 2017**



**Photo 290: CC3A Slope Repair: May 9, 2017**



**Photo 291: CC3A Slope Posi-Shell: May 9, 2017**



**Photo 292: CC3A Slope Posi-Shell: May 9, 2017**





**Photo 293: CC3A Slope Posi-Shell: May 9, 2017**



**Photo 294: CC3A Slope Posi-Shell: May 9, 2017**



**Photo 295: CC3A Slope Posi-Shell: May 9, 2017**



**Photo 296: CC4A Part 2 Excavation: May 23, 2017**



**Photo 297: CC4A Part 2 Excavation: May 23, 2017**



**Photo 298: CC4A Part 2 Excavation: May 23, 2017**



**Photo 299: Posi-Shell: May 23, 2017**



**Photo 300: Posi-Shell: May 23, 2017**





**Photo 301: Posi-Shell: May 23, 2017**



**Photo 302: Posi-Shell: May 23, 2017**



**Photo 303: Posi-Shell: May 23, 2017**



**Photo 304: Posi-Shell: May 23, 2017**





**Photo 305: Posi-Shell: May 23, 2017**



**Photo 306: Posi-Shell: May 23, 2017**



**Photo 307: Posi-Shell: May 23, 2017**



**Photo 308: Posi-Shell: May 23, 2017**





**Photo 309: Posi-Shell: May 23, 2017**



**Photo 310: Posi-Shell: May 23, 2017**



**Photo 311: Posi-Shell: May 23, 2017**



**Photo 312: Posi-Shell: May 23, 2017**





**Photo 313: Posi-Shell: May 23, 2017**



**Photo 314: Posi-Shell: May 23, 2017**



**Photo 315: Posi-Shell: May 23, 2017**



**Photo 316: Posi-Shell: May 23, 2017**





**Photo 317: Posi-Shell: May 23, 2017**



**Photo 318: Posi-Shell: May 23, 2017**



**Photo 319: Posi-Shell: May 23, 2017**



**Photo 320: Posi-Shell: May 23, 2017**





**Photo 321: Posi-Shell: May 23, 2017**



**Photo 322: Posi-Shell: May 23, 2017**

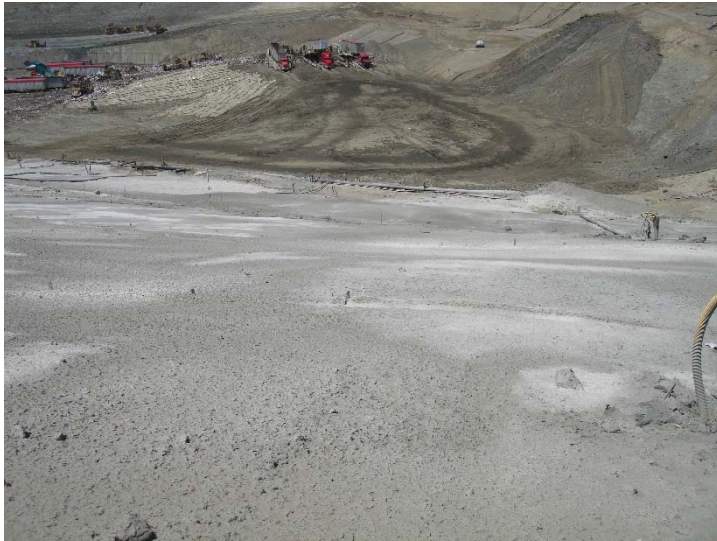


**Photo 323: Posi-Shell: May 23, 2017**



**Photo 324: Posi-Shell: May 23, 2017**





**Photo 325: Posi-Shell: May 23, 2017**



**Photo 326: Posi-Shell: May 23, 2017**



**Photo 327: Posi-Shell: May 23, 2017**



**Photo 328: Posi-Shell: May 23, 2017**





**Photo 329: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 330: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 331: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 332: CC4A Part 2 Excavation Area Slide: June 20, 2017**





**Photo 333: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 335: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 334: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 336: CC4A Part 2 Excavation Area Slide: June 20, 2017**





**Photo 337: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 338: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 339: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 340: CC4A Part 2 Excavation Area Slide: June 20, 2017**





**Photo 341: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 342: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 343: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 344: CC4A Part 2 Excavation Area Slide: June 20, 2017**





**Photo 345: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 346: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 347: CC4A Part 2 Excavation Area Slide: June 20, 2017**

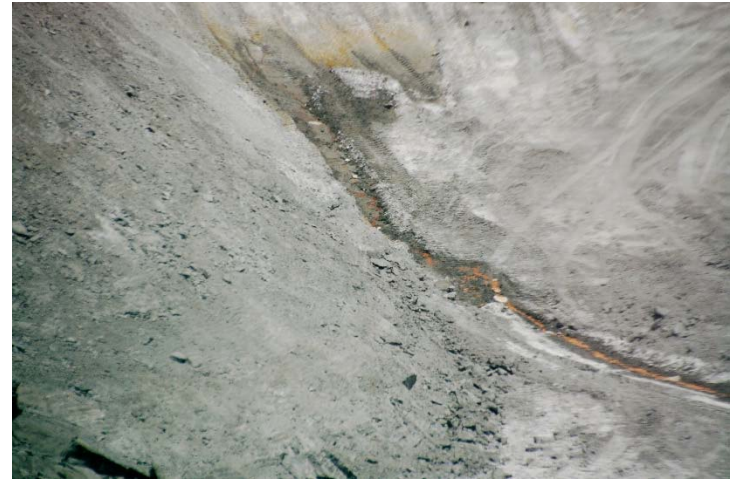


**Photo 348: CC4A Part 2 Excavation Area Slide: June 20, 2017**





**Photo 349: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 350: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 351: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 352: CC4A Part 2 Excavation Area Slide: June 20, 2017**





**Photo 353: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 354: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 355: CC4A Part 2 Excavation Area Slide: June 20, 2017**



**Photo 356: CC3A West Facing Slope Posi-Shell: June 20, 2017**





**Photo 357: Main Access Road to Scale: April 18, 2017**



**Photo 358: Main Access Road to Scale: April 18, 2017**



**Photo 359: Main Access Road to Scale: April 18, 2017**



**Photo 360: Main Access Road to Scale: April 18, 2017**



**Photo 361: Stockpile Soils Slumps on Old City Area: April 18, 2017**



**Photo 362: Stockpile Soils Slumps on Old City Area: April 18, 2017**



**Photo 363: Old City Landfill Soil Stockpile Near Offices: May 9, 2017**



**Photo 364: Old City Landfill Soil Stockpile Near Offices: May 9, 2017**





**Photo 365: Old City Landfill Soil Stockpile Near Offices: May 9, 2017**



**Photo 366: Old City Landfill Soil Stockpile Near Offices: May 9, 2017**



**Photo 367: Old City Landfill Soil Stockpile Near Offices: May 9, 2017**



**Photo 368: Old City Landfill Soil Stockpile Near Offices: May 9, 2017**



**Photo 369: Old City Landfill Soil Stockpile Near Offices: May 9, 2017**



**Photo 370: Soil Stockpile Offices Back Slopes: May 9, 2017**



**Photo 371: Soil Stockpile Offices Back Slopes: May 9, 2017**



**Photo 372: Soil Stockpile Offices Back Slopes: May 9, 2017**





**Photo 373: Deck C Sage Mitigation & PM 10 Berm Area:  
April 18, 2017**



**Photo 375: Deck C Sage Mitigation Area: May 9, 2017**



**Photo 374: Deck C Sage Mitigation Area: May 9, 2017**



**Photo 376: Deck C Sage Mitigation Area: May 9, 2017**





**Photo 377: Deck C Sage Mitigation Area: May 9, 2017**



**Photo 378: Deck C Sage Mitigation Area: May 9, 2017**



**Photo 379: Deck C Sage Mitigation Area: May 9, 2017**



**Photo 380: Deck C Sage Mitigation Area: May 9, 2017**





**Photo 381: Deck C Sage Mitigation Area: May 9, 2017**



**Photo 382: PM10 Berm Area: May 9, 2017**



**Photo 383: PM10 Berm Area: May 9, 2017**



**Photo 384: PM10 Berm Area: May 9, 2017**





**Photo 385: PM10 Berm Area: May 9, 2017**



**Photo 386: PM10 Berm Area: May 9, 2017**



**Photo 387: PM10 Berm Area: May 9, 2017**



**Photo 388: PM10 Berm Area: May 9, 2017**





**Photo 389: PM10 Berm Area: May 9, 2017**



**Photo 390: PM10 Berm Area: May 9, 2017**



**Photo 391: Deck C Sage Mitigation Area: May 23, 2017**



**Photo 392: Deck C Sage Mitigation Area: May 23, 2017**





**Photo 393: Deck C Sage Mitigation Area: May 23, 2017**



**Photo 394: Deck C Sage Mitigation Area: May 23, 2017**



**Photo 395: Deck C Sage Mitigation Area: May 23, 2017**



**Photo 396: Deck C Sage Mitigation Area: May 23, 2017**





**Photo 397: Deck B Sage Mitigation Area: April 18, 2017**



**Photo 398: Deck B Sage Mitigation Area: April 18, 2017**



**Photo 399: Deck B Sage Mitigation Area: April 18, 2017**



**Photo 400: Deck B Sage Mitigation Area: April 18, 2017**





**Photo 401: Deck B Sage Mitigation Area: April 18, 2017**



**Photo 402: Deck B & C Sage Mitigation Area: May 9, 2017**



**Photo 403: Deck B & C Sage Mitigation Area: May 9, 2017**



**Photo 404: Deck B Drainage Channel Repair Area: May 9, 2017**





**Photo 405: Deck B Drainage Channel Repair: May 9, 2017**



**Photo 406: Deck B Drainage Channel Repair: May 9, 2017**



**Photo 407: Deck B Drainage Channel Repair: May 9, 2017**



**Photo 408: Deck B Drainage Channel Repair: May 9, 2017**



**Photo 409: Deck B Drainage Channel: May 23, 2017**



**Photo 410: Deck B Drainage Channel: May 23, 2017**



**Photo 411: Deck B Drainage Channel: May 23, 2017**



**Photo 412: Deck B Drainage Channel: May 23, 2017**





**Photo 413: Deck A Water Tank: April 18, 2017**



**Photo 414: Deck A Water Tank: April 18, 2017**



**Photo 415: Deck A Sage Mitigation Area: April 18, 2017**



**Photo 416: Deck A Sage Mitigation Area: April 18, 2017**





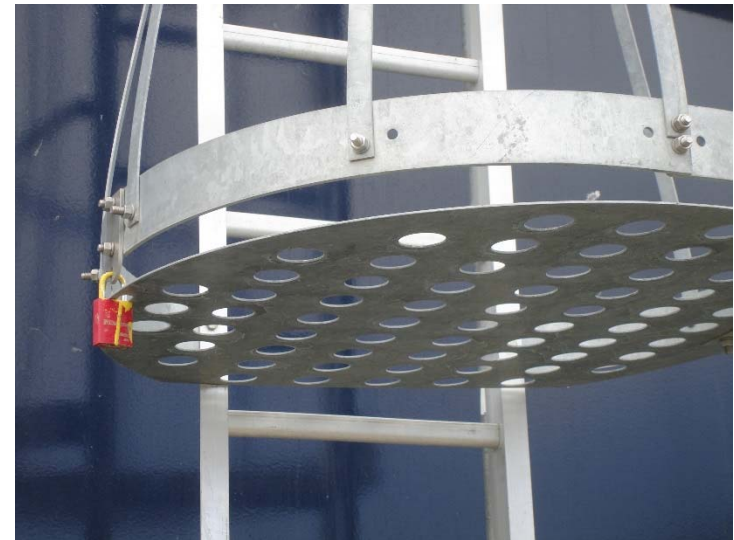
**Photo 417: Deck A Sage Mitigation Area: April 18, 2017**



**Photo 418: Deck A Sage Mitigation Area: April 18, 2017**



**Photo 419: Deck A Sage Mitigation Area: April 18, 2017**



**Photo 420: Deck A Water Tank: May 9, 2017**





**Photo 421: Deck A Water Tank: May 9, 2017**



**Photo 422: Deck A Sage Mitigation Area: May 9, 2017**



**Photo 423: Deck A Sage Mitigation Area: May 9, 2017**



**Photo 424: Deck A Sage Mitigation Area: May 9, 2017**



**Photo 425: Deck A Sage Mitigation Area: May 9, 2017**



**Photo 426: Deck A Sage Mitigation Area: May 9, 2017**



**Photo 427: County Sage Mitigation Area Slope Erosion:  
April 18, 2017**



**Photo 428: County Sage Mitigation Area Slope Erosion:  
April 18, 2017**





**Photo 429: County Sage Mitigation Area Slope Erosion:  
April 18, 2017**



**Photo 430: County Sage Mitigation Area Slope Erosion:  
April 18, 2017**



**Photo 431: County Sage Mitigation Area Slope Erosion:  
April 18, 2017**



**Photo 432: County Sage Mitigation Area Slope Erosion:  
April 18, 2017**





**Photo 433: County Sage Mitigation Area: May 23, 2017**



**Photo 434: County Sage Mitigation Area: May 23, 2017**



**Photo 435: County Sage Mitigation Area: May 23, 2017**



**Photo 436: County Sage Mitigation Area: May 23, 2017**





**Photo 437: County Sage Mitigation Area: May 23, 2017**



**Photo 438: Closure Turf: June 20, 2017**



**Photo 439: Closure Turf: June 20, 2017**



**Photo 440: Closure Turf: June 20, 2017**



**Photo 441: Closure Turf: June 20, 2017**



**Photo 442: Closure Turf: June 20, 2017**



**Photo 443: Closure Turf: June 20, 2017**



**Photo 444: Closure Turf: June 20, 2017**





**Photo 445: Closure Turf: June 20, 2017**



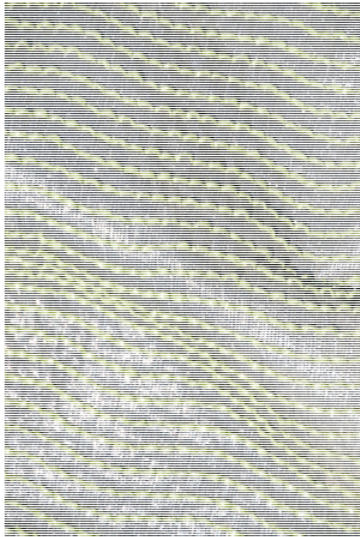
**Photo 446: Closure Turf: June 20, 2017**



**Photo 447: Closure Turf: June 20, 2017**



**Photo 448: Closure Turf: June 20, 2017**



**Photo 449: Closure Turf: June 20, 2017**



**Photo 450: Closure Turf: June 20, 2017**



**Photo 451: Closure Turf: June 20, 2017**



**Photo 452: Closure Turf: June 20, 2017**





**Photo 453: Closure Turf: June 20, 2017**



**Photo 454: Frontage Retaining Wall Slope on San Fernando Road:  
May 9, 2017**



**Photo 455: Frontage Retaining Wall Slope on San Fernando Road:  
May 9, 2017**



**Photo 456: Frontage Retaining Wall Slope on San Fernando Road:  
May 9, 2017**





**Photo 457: Frontage Retaining Wall Slope on San Fernando Road:  
May 9, 2017**



**Photo 458: Frontage Retaining Wall Slope on San Fernando Road:  
May 9, 2017**



**Photo 459: Frontage Retaining Wall Slope on San Fernando Road:  
May 9, 2017**



**Photo 460: Frontage Sidewalk on San Fernando Road: May 9, 2017**





**Photo 461: Frontage Sidewalk on San Fernando Road: May 9, 2017**



**Photo 462: Frontage Retaining Wall Slope on San Fernando Road:  
May 23, 2017**



**Photo 463: Frontage Retaining Wall Slope on San Fernando Road:  
May 23, 2017**



**Photo 464: Frontage Retaining Wall Slope on San Fernando Road:  
May 23, 2017**





**Photo 465: Frontage Retaining Wall Slope on San Fernando Road:  
May 23, 2017**



**Photo 466: Frontage Retaining Wall Slope on San Fernando Road:  
May 23, 2017**



**Photo 467: Frontage Retaining Wall Slope on San Fernando Road:  
May 23, 2017**



**Photo 468: Frontage Retaining Wall Slope on San Fernando Road:  
May 23, 2017**





**Photo 469: Frontage Retaining Wall Slope on San Fernando Road:  
May 23, 2017**



**Photo 470: San Fernando Road near I-5 Overpass: April 18, 2017**



**Photo 471: San Fernando Road near I-5 Overpass: April 18, 2017**



**Photo 472: San Fernando Road near I-5 Overpass: April 18, 2017**





**Photo 473: San Fernando Road near I-5 Overpass: April 18, 2017**



**Photo 474: San Fernando Road near I-5 Overpass: April 18, 2017**



**Photo 475: San Fernando Road near I-5 Overpass: April 18, 2017**

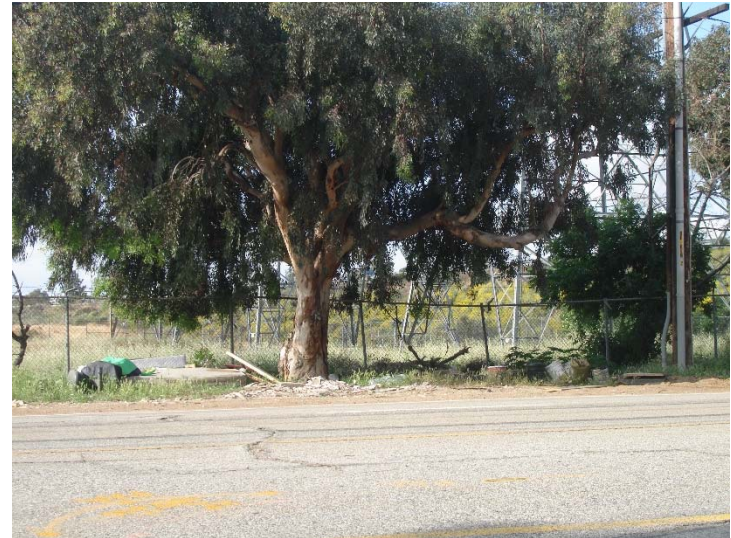


**Photo 476: San Fernando Road near I-5 Overpass: April 18, 2017**





**Photo 477: San Fernando Road near I-5 Overpass: April 18, 2017**



**Photo 478: San Fernando Road near I-5 Overpass: April 18, 2017**



**Photo 479: San Fernando Road near I-5 Overpass: April 18, 2017**



**Photo 480: San Fernando Road near I-5 Overpass: April 18, 2017**





**Photo 481: San Fernando Road near I-5 Overpass: April 18, 2017**



**Photo 482: Balboa Blvd at Woodley Ave Road Liquid Stains:  
May 9, 2017**



**Photo 483: Balboa Blvd at Woodley Ave Road Liquid Stains:  
May 9, 2017**



**Photo 484: San Fernando Road near I-5 Overpass: May 9, 2017**





**Photo 485: San Fernando Road near I-5 Overpass: May 9, 2017**



**Photo 486: San Fernando Road near I-5 Overpass: May 9, 2017**



**Photo 487: San Fernando Road near I-5 Overpass: May 9, 2017**



**Photo 488: San Fernando Road near I-5 Overpass: May 9, 2017**



**Photo 489: San Fernando Road near I-5 Overpass: June 20, 2017**



**Photo 490: San Fernando Road near I-5 Overpass: June 20, 2017**



**Photo 491: San Fernando Road near I-5 Overpass: June 20, 2017**



**Photo 492: San Fernando Road near I-5 Overpass: June 20, 2017**





**Photo 493: San Fernando Road near I-5 Overpass: June 20, 2017**



**Photo 494: San Fernando Road near I-5 Overpass: June 20, 2017**



**Photo 495: San Fernando Road near I-5 Overpass: June 20, 2017**



**Photo 496: San Fernando Road near I-5 Overpass: June 20, 2017**





**Photo 497: Localized Odor from Sewer Lift Pump Vault:  
May 9, 2017**



**Photo 498: Localized Odors near Well: May 23, 2017**



**Photo 499: Localized Odors near Well: May 23, 2017**



**Photo 500: Localized Odors near Well: May 23, 2017**





**Photo 501: Localized Odors near Well: May 23, 2017**



**Photo 502: Odor from Uncovered Sewer Pump Access:  
May 23, 2017**



**Photo 503: Odor from Uncovered Sewer Pump Access:  
May 23, 2017**



**Photo 504: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**





**Photo 505: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**



**Photo 506: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**



**Photo 507: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**



**Photo 508: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**





**Photo 509: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**



**Photo 510: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**



**Photo 511: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**



**Photo 512: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**





**Photo 513: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**



**Photo 514: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**



**Photo 515: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**



**Photo 516: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**





**Photo 517: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**



**Photo 518: Site Working Area CC4A Part 1 1215PM:  
April 18, 2017**



**Photo 519: Site Working Areas 1245PM: April 18, 2017**



**Photo 520: Site Working Areas 1245PM: April 18, 2017**



**Photo 521: Site Working Areas 1245PM: April 18, 2017**



**Photo 522: Site Working Areas 1245PM: April 18, 2017**



**Photo 523: Site Working Areas 1245PM: April 18, 2017**



**Photo 524: Site Working Areas 1245PM: April 18, 2017**





**Photo 525: Site Working Area CC4A Part 1 1245PM: April 18, 2017**



**Photo 526: Site Working Area CC4A Part 1 1245PM: April 18, 2017**



**Photo 527: Site Working Area CC4A Part 1 1245PM: April 18, 2017**



**Photo 528: Site Working Area CC4A Part 1 915AM: May 9, 2017**



**Photo 529: Site Working Area CC4A Part 1 915AM: May 9, 2017**



**Photo 530: Site Working Area CC4A Part 1 915AM: May 9, 2017**



**Photo 531: Site Working Area CC4A Part 1 915AM: May 9, 2017**



**Photo 532: Site Working Area CC4A Part 1 915AM: May 9, 2017**





**Photo 533: Site Working Area CC4A Part 1 915AM: May 9, 2017**



**Photo 534: Site Working Area CC4A Part 1 1010AM: May 9, 2017**



**Photo 535: Site Working Area CC4A Part 1 1010AM: May 9, 2017**



**Photo 536: Site Working Area CC4A Part 1 1010AM: May 9, 2017**



**Photo 537: Site Working Area CC4A Part 1 1010AM: May 9, 2017**



**Photo 538: Site Working Area CC4A Part 1 800AM: May 23, 2017**



**Photo 539: Site Working Area CC4A Part 1 800AM: May 23, 2017**



**Photo 540: Site Working Area CC4A Part 1 800AM: May 23, 2017**





**Photo 541: Site Working Area CC4A Part 1 800AM: May 23, 2017**



**Photo 542: Site Working Area CC4A Part 1 1100AM: May 23, 2017**



**Photo 543: Site Working Area CC4A Part 1 1100AM: May 23, 2017**



**Photo 544: Site Working Area CC4A Part 1 1100AM: May 23, 2017**



**Photo 545: Site Working Area CC4A Part 1 1100AM:  
May 23, 2017**



**Photo 546: Site Working Area CC4A Part 1 1100AM:  
May 23, 2017**



**Photo 547: Site Working Area CC4A Part 1 1100AM:  
May 23, 2017**



**Photo 548: Site Working Area CC4A Part 1 1100AM:  
May 23, 2017**





**Photo 549: Site Working Area CC4A Part 1 1100AM:  
May 23, 2017**



**Photo 550: Site Working Area CC4A Part 1 1100AM:  
May 23, 2017**



**Photo 551: Deck A Sage Mitigation Area Site Working Area CC4A  
Part 1 1100AM: May 23, 2017**



**Photo 552: Deck A Sage Mitigation Area Site Working Area CC4A  
Part 1 1100AM: May 23, 2017**





**Photo 553: Deck A Sage Mitigation Area Site Working Area CC4A  
Part 1 1100AM: May 23, 2017**



**Photo 554: Deck A Sage Mitigation Area Site Working Area CC4A  
Part 1 1100AM: May 23, 2017**



**Photo 555: Deck A Sage Mitigation Area Site Working Area CC4A  
Part 1 1100AM: May 23, 2017**



**Photo 556: Deck A Sage Mitigation Area Site Working Area CC4A  
Part 1 1100AM: May 23, 2017**





**Photo 557: Deck A Sage Mitigation Area Site Working Area CC4A  
Part 1 1100AM: May 23, 2017**



**Photo 558: Morning Queueing before Scales Open Site Working  
Area: June 20, 2017**



**Photo 559: Morning Queueing before Scales Open Site Working  
Area: June 20, 2017**



**Photo 560: Morning Queueing before Scales Open Site Working  
Area: June 20, 2017**



**Photo 561: Site Working Area CC4A Part 1 1230AM: June 20, 2017**



**Photo 562: Site Working Area CC4A Part 1 1230AM: June 20, 2017**



**Photo 563: Site: April 18, 2017**



**Photo 564: Site: April 18, 2017**





**Photo 565: Site: April 18, 2017**



**Photo 566: Site: April 18, 2017**



**Photo 567: Site: April 18, 2017**



**Photo 568: Site: April 18, 2017**



**Photo 569: Site: April 18, 2017**



**Photo 570: Site: April 18, 2017**



**Photo 571: Site: April 18, 2017**



**Photo 572: Site: April 18, 2017**





**Photo 573: Site: April 18, 2017**



**Photo 574: Site: April 18, 2017**



**Photo 575: Site: April 18, 2017**



**Photo 576: Site: April 18, 2017**





**Photo 577: Site: April 18, 2017**



**Photo 578: Site: April 18, 2017**



**Photo 579: Site: April 18, 2017**



**Photo 580: Site: April 18, 2017**





**Photo 581: Site: April 18, 2017**



**Photo 582: Site: April 18, 2017**



**Photo 583: Site: April 18, 2017**



**Photo 584: Site: April 18, 2017**



**Photo 585: Site: May 9, 2017**



**Photo 586: Site: May 9, 2017**



**Photo 587: Site: May 9, 2017**



**Photo 588: Site: May 9, 2017**





**Photo 589: Site: May 9, 2017**



**Photo 590: Site: May 9, 2017**



**Photo 591: Site: May 9, 2017**



**Photo 592: Site: May 9, 2017**



**Photo 593: Site: May 9, 2017**



**Photo 594: Site: May 9, 2017**



**Photo 595: Site: May 9, 2017**



**Photo 596: Site: May 9, 2017**





**Photo 597: Site: May 9, 2017**



**Photo 598: Site: May 9, 2017**



**Photo 599: Site: May 9, 2017**



**Photo 600: Site: May 9, 2017**



**Photo 601: Site: May 9, 2017**



**Photo 602: Site: May 9, 2017**



**Photo 603: Site: May 9, 2017**



**Photo 604: Site: May 9, 2017**





**Photo 605: Site: May 9, 2017**



**Photo 606: Site: May 9, 2017**



**Photo 607: Site: May 9, 2017**



**Photo 608: Site: May 9, 2017**



**Photo 609: Site: May 9, 2017**



**Photo 610: North Site Access Gate: May 23, 2017**



**Photo 611: North Site Access Gate: May 23, 2017**



**Photo 612: Site: May 23, 2017**





**Photo 613: Site: May 23, 2017**



**Photo 614: Site: May 23, 2017**



**Photo 615: Site: May 23, 2017**



**Photo 616: Site: May 23, 2017**



**Photo 617: Site: May 23, 2017**



**Photo 618: Site: May 23, 2017**



**Photo 619: Site: May 23, 2017**



**Photo 620: Site: May 23, 2017**





**Photo 621: Site: May 23, 2017**



**Photo 622: Site: May 23, 2017**



**Photo 623: Site: May 23, 2017**



**Photo 624: Site: May 23, 2017**



**Photo 625: Site: May 23, 2017**



**Photo 626: Site: May 23, 2017**



**Photo 627: Site: May 23, 2017**



**Photo 628: Site: May 23, 2017**





**Photo 629: Site: May 23, 2017**



**Photo 630: Site: May 23, 2017**



**Photo 631: Site: May 23, 2017**



**Photo 632: Site: May 23, 2017**



**Photo 633: Site: May 23, 2017**



**Photo 634: Site: May 23, 2017**



**Photo 635: Site: May 23, 2017**



**Photo 636: Site: May 23, 2017**





**Photo 637: Site: May 23, 2017**



**Photo 638: Site: May 23, 2017**



**Photo 639: Site: May 23, 2017**



**Photo 640: Site: May 23, 2017**





**Photo 641: Site: May 23, 2017**



**Photo 642: Site: May 23, 2017**



**Photo 643: Site: May 23, 2017**



**Photo 644: Site: May 23, 2017**





**Photo 645: Site: May 23, 2017**



**Photo 646: Site: May 23, 2017**



**Photo 647: Site: May 23, 2017**



**Photo 648: Site: May 23, 2017**



**Photo 649: Site: May 23, 2017**



**Photo 650: Site: May 23, 2017**



**Photo 651: Site: May 23, 2017**



**Photo 652: Site: May 23, 2017**





**Photo 653: Site - Closure Turf: May 23, 2017**



**Photo 654: Site - Closure Turf: May 23, 2017**



**Photo 655: Site - Closure Turf: May 23, 2017**



**Photo 656: Site - Closure Turf: May 23, 2017**



**Photo 657: Site: May 23, 2017**



**Photo 658: Site: May 23, 2017**



**Photo 659: Site: May 23, 2017**



**Photo 660: Site: May 23, 2017**





**Photo 661: Site: June 20, 2017**



**Photo 662: Site: June 20, 2017**



**Photo 663: Site: June 20, 2017**



**Photo 664: Site: June 20, 2017**



**Photo 665: Site: June 20, 2017**



**Photo 666: Site: June 20, 2017**



**Photo 667: Site: June 20, 2017**



**Photo 668: Site: June 20, 2017**





**Photo 669: Site: June 20, 2017**

# Appendix III

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

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### **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
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# April Site Visits

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## April 18, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

Tarik Hadj-Hamou (SLR)



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 4/18/17
Site Conditions: Sunny, 60-75°F, 5-15 MPH winds	
SITE LOG	
<p>Republic Site Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood area from 6:30 to 7:30 a.m. and the following was noted:</p> <p>6:30 - no landfill odors at or adjacent to the Knollwood Country Club</p> <p>6:50 - no landfill odors at Balboa Boulevard and Woodley Avenue</p> <p>7:15 - a faint greenwaste odor at Titian and Orozco that was coming from the south</p> <p>7:20 - no landfill odor at Orozco and Sesnon</p> <p>7:25 - no landfill odor on Constable</p> <p>7:30 - no landfill odor on Timber Ridge and Golden Valley</p> <p>Drove down San Fernando Road to the I-5 overpass. San Fernando Road litter control was being done by Republic. Under and adjacent to the I-5 overpass, there was illegal dumping of construction debris, two mattresses, and soil, rock, and rubble. Also observed were ten 5-gallon plastic containers with lids on them. The contents were not known. This is beyond Republic's clean-up area. Republic reported this dumping to the City 311 call service.</p> <p>Met with Mike Lindsay (UltraSystems) and Tarik-Hadj-Hamou (SLR) and signed in at the office, and had a brief conversation with Patti Costa and Rob Sherman (Republic). The UltraSystems team then proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• The CC-3B temporary basin outlet had significant erosion rails adjacent to the concrete channels.</li> <li>• The CC-3A western-facing slopes were covered with Posi-Shell. The upper edges were anchored and sealed with Posi-Shell to control undercutting.</li> </ul> <p>We had Mike Harmon (LACDPW) join us and we continued the monitoring.</p> <ul style="list-style-type: none"> <li>• Waste was being placed in Cells CC-4 Part 1 and CC-3B.</li> <li>• Excavation was underway moving soil from the future Cell CC-4 Part 2 area. There were 14 scrapers moving soil. Soil was being stockpiled on the eastern side of the City north landfill.</li> <li>• Flare 3 was not operating. Tall grasses were observed in and outside of the fenced area. Fire control brush clearance was not yet done.</li> <li>• The road to Flare 3 had significant erosion with deep ruts (greater than 1" deep) along the edge of the road. No lined drainage control v-ditch was in place.</li> <li>• The Edison Pole 37 drainage control corrugated steel slide was not protected from being an attractive nuisance.</li> </ul>	



Page 2 of 2, 4/18/17:

- Basin A had sediment being removed. Sediment was piled to dry and dried sediment was being trucked away. The outlet risers were not being cleaned. The outlet channel was cleaned and drainage pipes installed under a temporary road. The southern dirt slope from the Edison pole construction had deep cut erosion rails and future sloughing into the basin not remedied.
- The westside drainage channel floor that was uplifting and walls that were cracking and shifting noted on the March 9th site monitoring were repaired. The floor concrete was removed and replaced and any damaged walls fixed.
- The County sage mitigation area had significant erosion rails.
- Basin D was dry and had no runoff sediment.
- The Basin D outlet channel had the HDPE liner uplifted and soil and debris under the leading edge.
- The County top deck had stockpiled soil and concrete moved to allow for future waste placement.
- The jute netting on the new alternate road slopes above the Flare 11 site pad held up well during the rains and some areas had vegetation growing.
- A liquid tote container at the Flare 9 and 10 blower location was used for collecting condensate from a knockout vessel. The inlet opening was venting vapors causing a strong localized odor.
- Basin B had minor sediment in the basin with piles of debris and sediment observed along the back concrete walls.
- The temporary basin below Cell CC-3B was cleared of sediment and waste debris. The basin was pumped dry and the overflow channel cleared of sediment. The low flow outlet pipe was plugged with debris and sediment.
- The terminal basin had sediment pushed into piles for draining water. Portions of the basin were cleared of sediment. The outlet risers have not been cleared of sediment nor debris. Capacity for future storm events has been reduced.
- The City Deck A water tank foundation was backfilled and ladder access locked.
- The City Deck B concrete channel that was ponding water due to reverse flow from settlement was removed and replaced with a new concrete channel segment.
- There were 4 well drilling rigs operating. One on the City top deck CC-3A was causing strong localized odors.

Flare Operating Conditions:

- Flare 1 - 1690°F, 2369 SCFM, -57.60" vacuum
- Flare 3 - shut down
- Flare 9 - 1683°F, 3197 SCFM
- Flare 10 - 1675°F, 3204 SCFM, -62" vacuum, 37.01" out

The gas-to-energy plant was using 7966 SCFM of recovered landfill gas, 50.0% CH<sub>4</sub>, 1.66% O<sub>2</sub>.  
The facility was at 100% production.

FURTHER REVIEW NEEDED
COMMENTS
Signed: 

**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 04-18-2017 Tuesday
Site Conditions: Mostly cloudy, 61–72 °F, 3–12 mph, 74% RH	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office and with Patti Costa and Rob Sherman (Republic).</li> <li>2. Strong greenwaste odors (eucalyptus) are present near the North Hills Recycling facility on Blucher Avenue at 8:05 am.</li> <li>3. Met with Mike Harmon (LACDPW).</li> <li>4. Flare 3 is offline.</li> <li>5. Observed overall landfill operations from the Flare 3 area, including 14 scrapers excavating soil from Cell CC 4 Part 2.</li> <li>6. Observed four drilling rigs drilling new gas wells throughout site.</li> <li>7. Water downchute near Edison pole #37 has no pedestrian guard at top.</li> <li>8. Access road to Flare 3 has deep erosion ruts along roadside.</li> <li>9. Sediment Basin A is being cleared of sediment with a front-end loader and dump truck.</li> <li>10. Traffic spotters are onsite to control traffic.</li> <li>11. Extensive excavation work has occurred at the County top deck area.</li> <li>12. The westside drainage channel has been repaired of broken and spalling concrete walls, including newly-poured concrete flooring (directly below the County sage mitigation area slopes).</li> <li>13. Sediment Basin D is in good order, along with the materials storage yard.</li> <li>14. Flare 9 is operating at 2852 scfm, 1665 °F. Gas sample measured at 49 % Vol. CH<sub>4</sub>, 2.2 % Vol. O<sub>2</sub>, 0 ppm H<sub>2</sub>S and over 500 ppm CO. Blowers 2, 3 and 4 are in operation.</li> <li>15. Flare 10 is operating at 2862 scfm, 1654 °F.</li> <li>16. Secondary access road is in good condition, including weather station.</li> <li>17. Sediment Basin B is in good order, with soil being removed.</li> <li>18. Observed gas well drilling rig at top of Cell CC 3A, including very strong odors around rig.</li> <li>19. Cell CC 4 Part 1 is now accepting trash, with ADC 80% covered with new trash at 12:10 pm.</li> <li>20. Cell CC-3B working area is in good order, including tippers and water misters.</li> <li>21. Flare 1 is operating at 2340 scfm, 1696 °F. Gas sample measured at 38 % Vol. CH<sub>4</sub>, 2.5 % Vol. O<sub>2</sub>, 0 ppm H<sub>2</sub>S and over 49 ppm CO. Gas inlet temperature is at 124 °F.</li> <li>22. Water tank foundation has been backfilled with soil.</li> <li>23. Observed overall landfill operations from the water tank area.</li> <li>24. City Deck A is growing well after the recent rains.</li> <li>25. Water trucks are applying water throughout site for dust control.</li> <li>26. Met with Patti Costa, Ricky Dhupar and Tyson Ross (Republic), and discussed our site monitoring observations.</li> </ol>	



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**FURTHER REVIEW NEEDED**

1. Install a pedestrian guard at top of water downchute near Edison pole #37.
2. Fill in erosion ruts along access road to Flare 3.
3. Eliminate odors near drilling rig at top of Cell CC 3A.

Signed: *Michael W. Lindsay*



### SUNSHINE CANYON LANDFILL

#### MITIGATION MONITORING SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 12
Discipline: Civil – Geotechnical and Hydrology	Date: April 18, 2017
Site Conditions: Sunny	
<b>SITE LOG</b>	
7:00 Met with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill	
7:15 Sign-up in main office	
7:15-9:15 UltraSystems team tour site	
9:30 meet with LA County DPW staff: Mike Harmon to set up goal of the visit	
9:30 - 2:30 landfill tour Observed the following areas: <ul style="list-style-type: none"> <li>• Placement of waste at Cell CC3B and in new Cell CC4</li> <li>• Erosion protection</li> <li>• Drainage systems (Basins, channels)</li> <li>• Secondary exit road by Flare 10 and crest road</li> <li>• Access road to Flare 3</li> <li>• Landfill for geotechnical and hydrological issues</li> </ul>	
Waste Placement <ul style="list-style-type: none"> <li>• Cell CC4               <ul style="list-style-type: none"> <li>– Construction of the cell was finished and all damages from earlier rainstorm repaired</li> <li>– Cell was accepting waste (Photo 1)</li> <li>– Alternative cover was used as shown on northeast corner of waste mass in the cell</li> <li>– The innovative gas-leachate collection system developed by Republic are visible and protected from truck traffic (Photo 2)</li> </ul> </li> <li>• Cell CC3B               <ul style="list-style-type: none"> <li>– Waste was placed in the cell</li> <li>– No civil or geotechnical issues were observed</li> </ul> </li> </ul>	
Erosion Protection <ul style="list-style-type: none"> <li>• All systems installed at site are in good shape</li> <li>• The downstream slopes of the embankment new temporary unlined earthen basin near the bottom of the canyon before the final sediment basin that suffered some damage during the rainstorm have recovered and exhibited nice vegetation growth (Photo 3).</li> </ul>	
Drainage system <ul style="list-style-type: none"> <li>• New temporary unlined earthen basin               <ul style="list-style-type: none"> <li>– basin has been partially excavated and the spillway cleared (Photo 4)</li> </ul> </li> <li>• Gabion mats installed in the channel along the access road did a great job retaining fines, minimizing the load in the Terminal basin. The fines retained that could reduce the area therefore the capacity of the channel to convey the flow of water have been cleared restoring</li> </ul>	





<p>full capacity (Photo 5)</p> <ul style="list-style-type: none"> <li>• Terminal Basin <ul style="list-style-type: none"> <li>– The basin has been partially cleared from sediments.</li> <li>– in particular those accumulated behind the midway now of gabions (Photo 6)</li> <li>– sediments are still accumulated between the decant towers and the midway now of gabions</li> <li>– because of the sediment, the intake area of the decant towers is reduced (Photo 7).</li> </ul> </li> <li>• Basin A <ul style="list-style-type: none"> <li>– Sediments accumulated in basin were being removed (Photo 8)</li> <li>– No additional soil has sloughed on the eastern edge where the gas line to Flare 3 is laid out</li> <li>– The seep observed on the hillside cut adjacent to the basin during the February 23, 2017 visit is not a seep, but the surface expression of erosion due to water flowing down the hill along the native terrain and the fill. Dry terrain allowed this monitor to walk up the hill and observe the area. Photos 9, 10, and 11 show that what was thought to be a seep on the hillside is in fact a gully dug by water running down along the contact between the leftover native and the fill prior to turning onto the bench and flowing on the face of the bench.</li> </ul> </li> <li>• Basin D <ul style="list-style-type: none"> <li>– Clean</li> <li>– All channels into out of the basin are clean and open.</li> </ul> </li> <li>• Basin B <ul style="list-style-type: none"> <li>– Clean</li> <li>– Some soil slid from the hill in the far corner (Photo 12)</li> </ul> </li> <li>• Channel between Basin A and D cracks, fissure, and uplift floor have been repaired with the pouring of a new slab (Photo 13)</li> <li>• The channel on the main access road on the City South Landfill deck that exhibited reverse slope and therefore ponded water was being replaced. (Photo 14)</li> <li>• Channel between Basin D and access road to Flare 9 and 10. <ul style="list-style-type: none"> <li>– The geomembrane installed in the channels has some loose at the connection with the corrugated pipe.</li> <li>– During stormwater flows, water can flow under the geomembrane and rip it (Photos 15 and 16)</li> </ul> </li> </ul>
<p>Access Roads</p> <ul style="list-style-type: none"> <li>• No additional movement was observed of area on the slope rising from the access road to the administration building was observed to have experienced some sloughing.</li> <li>• Extensive, excessive erosion along the road to Flare 3 was observed (Photo 17)</li> </ul>
<p>Water tank</p> <ul style="list-style-type: none"> <li>• the gap around the ring foundation of the water tank was filled up (Photo 18)</li> </ul>
<p>Overall landfill inspection.</p> <ul style="list-style-type: none"> <li>• no geotechnical issues were observed</li> </ul>
<p>2:00-2:30 Close-out meeting with Republic Staff LADPW and GLA representative to discuss findings and retaining wall along San Fernando Road.</p> <ul style="list-style-type: none"> <li>• UltraSystems <ul style="list-style-type: none"> <li>– described the conditions of the wall namely our observations over the past few months of soil piling up against the fence component of the wall</li> </ul> </li> </ul>

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<ul style="list-style-type: none"><li>– reminded everyone that the wall is built close to a vertical cliff</li><li>– expressed concern that the wall is not designed for this extra load and could fail</li><li>– expressed concerns about the trees at the crest of the cliff</li><li>– recommended that prior to cleaning the soil behind the wall a geologist or geotechnical engineer look at the overall conditions of the site to limit the risk of failure</li><li>• Republic consultant GLA stated that they will look into it</li><li>• Republic would assist with permitting as needed</li></ul>
<b>FURTHER REVIEW NEEDED</b>
None
<b>COMMENTS</b>
Signed: 





Photo 1: Filling activities in Cell CC4



Photo 2: Republic gas-leachate collection well



Photo 3: Graw growing on downstream face of temporary basin



Photo 4: Temporary earthen basin near Terminal Basin cleaned up





Photo 5: Fines removed from in front Gabions in Channel



Photo 6: Sediments removed from front half of Terminal Basin

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Photo 7: Sediments in back half of Terminal Basin partially obstructing the decant towers



Photo 8: Removal of sediments from Basin A





Photo 9: Erosion gullies on fill next to Basin A supporting access road to Flare 3



Photo 10: View of water gullies between native and fill supporting access road to Flare 3

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Photo 11: Detail of Erosion gullies toward Basin A from water running down slope



Photo 12: Basin B cleaned up





Photo 13: Repaired floor of west drainage channel



Photo 14: Repair of Channel on old city landfill deck



Photo 15: Geomembrane detached from headwall at drainage channel between Basin D and access road to Flare 9 and 10



Photo 16: Geomembrane detached from headwall at drainage channel between Basin D and access road to Flare 9 and 10





Photo 17: Excessive gullies along access road to Flare 3



Photo 18: Foundation around water tank filled up

## May Site Visits

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**May 9, 2017:**

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)





**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 5/9/17
Site Conditions: Cloudy, 55-70°F, 0-15 MPH winds	
SITE LOG	
<p>Republic General Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood area from 6:30 to 7:45 a.m. and the following was noted:</p> <p>6:45 - no landfill odors at or adjacent to the Knollwood Country Club</p> <p>7:05 - no landfill odors at Balboa Boulevard and Woodley Avenue</p> <p>7:15 - no landfill odors at Titian and Orozco</p> <p>7:20 - no landfill odors at Orozco and Sesnon</p> <p>7:25 - no landfill odors on Constable</p> <p>7:30 - no landfill odor on Timber Ridge</p> <p>7:45 - no landfill odors at Balboa at the I-5 Freeway</p> <p>Drove down San Fernando Road to the I-5 overpass. San Fernando Road litter control was being done by Republic. Under and adjacent to the I-5 overpass, there was illegal dumping. A mattress, construction debris, and tires were dumped near and under the freeway overpass. The previously noted dirt on the shoulder and 5-gallon containers (approximately 15 of them) were cleaned up by the City. This is beyond Republic's clean-up area. Republic and the monitor were going to report this illegal dumping to the City 311 call service.</p> <p>Met with Mike Lindsay (UltraSystems) and signed in at the office. We had a brief conversation with Mike Bourdain and Rick Dupar (Republic). The UltraSystems team then met with Vu Truong (LACDPW) and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• Waste was being placed in Cell CC-4 Part 1 with three tippers operating.</li> <li>• Thirteen (13) scrapers were excavating dirt from the Cell CC-4 Part 2 area and moving it to a stockpile near the eastside drainage area.</li> <li>• There was a gas or liquids well drilling rig operation on the County eastern slope, a second one on Cell CC-3A west-facing slope, and a third in Cell CC-3B.</li> <li>• The Old City landfill had deep erosion ribbons on the slopes near the office parking. The CC-3A front slopes also had deep erosion ribbons. Both of these areas are soil stockpiles.</li> <li>• The Old City landfill's winter storm impacts to the HDPE drainage downcomers and piping were repaired.</li> <li>• Deck C sage mitigation was doing well with sage coming back and all vegetation greening up from the season's rain. A minor amount of mustard needs to be removed.</li> <li>• The Deck C PM-10 oak trees were doing well. No understory planting was done.</li> <li>• A concrete section of the Deck B drainage channel that did not drain was removed and replaced.</li> </ul>	

Page 2 of 2, 5/9/17:

- The channel downstream of the replaced section had windblown litter and tumbleweed block any potential water flow.
- The west-facing slopes of Cell CC-3A were covered with Posi-Shell.
- The access ladder safety cover to the Deck A water tank ladder was locked.
- Flare 3 had the vegetation removed around the site to comply with brush removal fire clearance regulations.
- The outlet channel of Basin A was functional with a dirt blockage removed. Drainage pipes were installed under a temporary dirt access road in the channel. The outlet risers had the rock plugged with sediment and water was ponding. Soil was sloughing from the southern slope into the basin. The slope needs to be graded and stabilized. The sediment in the basin was removed.
- Basin B had ponding water at the outlet risers. The basin was cleared of sediment. Minor windblown litter was on the back native slopes.
- The condensate liquids tote tanks at flares 9 and 10 blowers had an open vent that was causing a strong localized odor.
- The Adler Tanks on the Old City North top deck were having vacuum trucks remove the liquids and they were being hauled offsite.
- The eastside drainage channel gabions were loaded with sediment and debris. Some gabions were already removed.
- The terminal basin had pumps removing water from the sediment. The basin as significantly filled with sediment from the gabion wall to the risers. The risers were approximately 70% covered. Other areas were having sediment dry and being removed.
- The CC-3B temporary basin was cleared of sediment and debris. The low flow outlet was not cleaned and was plugged with debris and sediment.
- The lift pump at the sewer connection had strong localized liquid odors that drifted to the San Fernando Road wall. The rubber cover was not being used.
- The potable water piping is leaking at two points.
- The San Fernando Road retaining wall had additional soil slough down onto the wall fence.

Flare Operating Conditions:

- Flare 1 - 1701°F, 1771 SCFM, -57.60" vacuum
- Flare 3 - shut down
- Flare 9 - 1661°F, 2807 SCFM
- Flare 10 - 1660°F, 2863 SCFM, -63" vacuum, 39.61" out

The gas-to-energy plant was using 8797 SCFM of recovered landfill gas, 50.0% CH<sub>4</sub>, 1.66% O<sub>2</sub>.  
The facility was at 100% production.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 05-09-2017 Tuesday
Site Conditions: Cloudy, 56–70 °F, 3–12 mph, 78% RH	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas (UltraSystems), and checked into office and with Mike Bourdain and Ricky Dhupar (Republic).</li> <li>2. Met with Vu Truong (LACDPW).</li> <li>3. Observed overall landfill operations, including two rippers and 13 scrapers excavating soil from Cell CC 4 Part 2.</li> <li>4. All transfer trucks observed at scale house are covered with a tarp.</li> <li>5. Traffic spotters are onsite to control traffic.</li> <li>6. Met with Rob Sherman (Republic) and discussed cell development and fill sequence plans.</li> <li>7. Cell CC 4 Part 1 working area is in good operating condition, including three tippers and water misters.</li> <li>8. Cell CC-3A has two drilling rigs operating along its perimeter.</li> <li>9. Bird abatement is in force, including falconer with five falcons.</li> <li>10. Observed Cell CC-4 Part 1 operations from above, from Cell CC-3A perimeter.</li> <li>11. Excavated soil from Cell CC-4 Part 2 is being deposited along eastside drainage channel roadway.</li> <li>12. City Deck C sage mitigation area has new vegetation growth throughout, with salt bush dominating the overall habitat. Some mustard plant is present in north-central area.</li> <li>13. Oak trees at the PM-10 berm have new growth, and have a darker green color than in previous months.</li> <li>14. Water misters are operating above City Deck C for odor control.</li> <li>15. Flare 1 is operating at 1777 scfm, 1659 °F. Gas sample measured at 38 % Vol. CH<sub>4</sub>, 1.9 % Vol. O<sub>2</sub>, 26 ppm H<sub>2</sub>S and 32 ppm CO. Gas inlet temperature is at 103 °F.</li> <li>16. Observed overall landfill operations from the water tank area.</li> <li>17. Water trucks are applying water throughout site for dust control.</li> <li>18. City decks A and B have new spring growth throughout, including salt bush, sage and grasses.</li> <li>19. Ladder gate is locked on water tank access ladder.</li> <li>20. Flare 3 is offline.</li> <li>21. Sediment Basin A is in good condition, with some soil sloughing off at southern slope.</li> <li>22. Trash and debris has accumulated at back of Sediment Basin A.</li> <li>23. Drainage channel at Sediment Basin A is routed through temporary pipes for a construction road.</li> <li>24. Flare 9 is operating at 2830 scfm, 1659 °F. Gas sample measured at 47 % Vol. CH<sub>4</sub>, 2.1 % Vol. O<sub>2</sub>, 111 ppm H<sub>2</sub>S and over 500 ppm CO. Blowers 1, 2 and 3 are in operation.</li> <li>25. Flare 10 is operating at 2810 scfm, 1657 °F.</li> <li>26. Sediment Basin B is in overall good condition, but with trash and debris accumulated at back north slope.</li> <li>27. Eastside drainage channel has sediment and some trash accumulating against gabion block water dissipaters.</li> <li>28. Final toe berm and drainage channel is in overall good condition, except the low-flow drain is</li> </ol>	

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- blocked with sediment and trash.
29. Water trucks are applying water throughout site for dust control.
  30. Retaining wall by landfill entrance is impacted with additional soil at known locations.
  31. Terminal basin is being cleaned out, including water pumping.
  32. Met with Patti Costa, Ricky Dhupar and Tyson Ross (Republic), and discussed our site monitoring observations.

**FURTHER REVIEW NEEDED**

1. Remove mustard plant at City Deck C in north-central area.
2. Remove trash and debris at back of Sediment Basin A.
3. Remove trash and debris at back of Sediment Basin B.
4. Remove sediment and trash from eastside drainage channel gabion block water dissipaters.
5. Remove sediment and trash from low-flow drain at final toe berm drainage channel.
6. Remove soil that is impacting retaining wall near landfill entrance.

Signed: *Michael W. Lindsay*



**May 23, 2017:**

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

Tarik Hadj-Hamou (SLR)



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 5/23/17
Site Conditions: Clear, 70-90°F, 0-15 MPH winds	
<b>SITE LOG</b>	
<p>Republic General Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood area from 6:30 to 7:30 a.m. and there were no landfill odors detected in the adjacent neighborhood or in the Cascade's neighborhood.</p> <p>Met with Mike Lindsay (UltraSystems) and Tarik Hadj-Hamou (SLR) and signed in at the office. We had a brief conversation with Patti Costa and Ricky Dhupar concerning activities on site and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• The terminal basin inlet was blocked with a soil berm to block water flow and allow yearly cleaning. All sediment was removed. The gabion wall and the outlet risers were covered with sediment and possibly plugged.</li> <li>• The main access road slopes facing the terminal basin had deep erosion rills and soil sloughing. This area should be monitored and/or repaired.</li> <li>• Soil boring was observed near the terminal basin, possibly for the ultimate toe berm.</li> <li>• The temporary flare was moved off-site.</li> <li>• The liquid tote tanks at the Flares 9 and 10 blowers were covered and no localized odor were detected.</li> <li>• Vegetation was growing around the Flare 9 and 10 site pad and it should be cut for fire safety.</li> <li>• The north main fire access road gate leaving the site to access Coltrain Road was rammed by a large vehicle and was laying on the ground bent and broken. The landfill north perimeter is not secure.</li> <li>• Scrap steel pipe, metal, HDPE scrap pipe, concrete rubble, and a tree trunk and root are being stored on the old Flare 8 site. This material should be properly disposed of.</li> <li>• The Phase II area filled in November 2016 is now having soil stockpiled in the area. A rough elevation check was 1903. Republic's fill maps for this area should be reviewed.</li> <li>• Basin D outlet channel liner was still lifted with tumbleweed under the liner. Maintenance had not yet been performed.</li> <li>• There was a strong liquids odor coming from the sewer lift pump vault which could be detected at the San Fernando Road block wall. The rubber mat to cover the vault access panels was not being used.</li> <li>• The Posi-Shell test site on the County east-facing site had rain run-off going under the shell and lifting and breaking it in some areas.</li> <li>• Localized odors were detected coming from Well CTC 625.</li> <li>• Basin B was cleared of sediment except for the area around the outlet risers and the two back wall farthest points. The native hillside vegetation had wind-blown litter in the same areas.</li> </ul>	



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- Basin D was clean and dry with no sediment.
- The County sage area had no sage revegetation or slope repair activity. The far north slope had deep erosion rills on the slope just above the concrete drainage channel.
- Strong odors were detected on the top of Cell CC-3A coming from the GW-2087 and 2088 area.
- Basin A was cleared of sediment. The sloughed soil from the southern dirt slope was being removed. Slope repair was not yet done. There was standing water at the outlet riser. The risers and filter rock have not been cleaned.
- Waste disposal is occurring in CC-4 Part 1.
- Excavation of CC-4 Part 2 is still under way with 16 scrapers operating.
- The CC-3A west-facing slope was having the Posi-Shell repaired. There were areas of cracking and settlement seen.
- The San Fernando Road retaining wall had additional sloughing of soil and soil and rock were topping the fence in multiple locations. Republic's consulting engineers are preparing a report to correct the current condition.
- Deck C sage mitigation is showing signs of sage re-growth and new plants under salt bush.
- Cover turf synthetic grass with underlying liner was being installed on the south-facing slope of CC-3A.

Flare Operating Conditions:

- Flare 1 - 1648°F, 2084 SCFM, -58.17" vacuum
- Flare 3 - shut down
- Flare 9 - 1674°F, 3210 SCFM
- Flare 10 - 1653°F, 3223 SCFM, -64" vacuum, 38.53" out

The gas-to-energy plant was using 8833 SCFM of recovered landfill gas, 47.0% CH<sub>4</sub>.  
The facility was at 100% production.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 05-23-2017 Tuesday
Site Conditions: Clear, 70–92 °F, 3–15 mph, 46% RH	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office and with Patti Costa and Ricky Dhupar (Republic).</li> <li>2. Observed Posi-Shell test area adjacent to Sediment Basin B.</li> <li>3. Sediment Basin B has been cleared of sediment, and is ready for the wet weather season.</li> <li>4. The temporary flare stack has been removed from site.</li> <li>5. Flare 9 is operating at 3180 scfm, 1672 °F. Gas sample measured at 47 % Vol. CH<sub>4</sub>, 2.1 % Vol. O<sub>2</sub>, 44 ppm H<sub>2</sub>S and over 500 ppm CO. Blowers 1, 3 and 4 are in operation.</li> <li>6. Flare 10 is operating at 3132 scfm, 1656 °F.</li> <li>7. No odors were detected at liquid holding containers by Flare 9/10 blowers, with container cap in-place.</li> <li>8. A relatively high inlet temperature of 156 °F is indicated at Flare 9.</li> <li>9. The gas-to-energy facility is offline due to a thermal event, per the facility operator.</li> <li>10. The County top deck Phase II fill area measured at 1,903.7 feet elevation along the 2007 final grading plan maximum contour line of 1,904 feet.</li> <li>11. Sediment Basin A is in good order.</li> <li>12. Sediment Basin D drainage channel has liner material lifted from concrete at known location.</li> <li>13. Strong odors were detected from the top of Cell CC-3A, with a possible source being landfill gas wells GW-2088 and GW-2087.</li> <li>14. Observed workers filling sandbags at Cell CC-3B.</li> <li>15. A drilling rig is preparing to drill a landfill gas well at Cell CC-3B.</li> <li>16. Cell CC 4 Part 1 working area is in good working order, including three tippers. ADC is 50% covered by new trash at 10:30 am.</li> <li>17. Observed Posi-Shell being applied to existing Posi-Shell slope above Cell CC-4 Part 1.</li> <li>18. Water trucks are applying water throughout site for dust control.</li> <li>19. Retaining wall by landfill entrance is impacted with additional soil at known locations.</li> <li>20. Flare 1 is operating at 2080 scfm, 1649 °F. Gas sample measured at 39 % Vol. CH<sub>4</sub>, 1.6 % Vol. O<sub>2</sub>, 58 ppm H<sub>2</sub>S and 35 ppm CO. Gas inlet temperature is at 140 °F.</li> <li>21. Bird abatement is in force, including falconer with five falcons.</li> <li>22. Traffic spotters are onsite to control traffic.</li> <li>23. Observed overall landfill operations from water tank area, including one ripper and 16 scrapers excavating soil from Cell CC 4 Part 2.</li> <li>24. City decks A and B have new spring growth throughout, including salt bush, sage and grasses.</li> <li>25. Flare 3 is offline.</li> <li>26. Sediment Basin A has had all soil removed, with some standing water remaining.</li> <li>27. Final toe berm and drainage channel is in overall good condition, except the low-flow drain is still blocked with sediment and trash.</li> <li>28. Met with Patti Costa and Kate Logan (Republic), and discussed our site monitoring observations.</li> </ol>	



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**FURTHER REVIEW NEEDED**

1. Check high temperature at gas inlet for Flare 9 and Flare 10.
2. Repair Sediment Basin D drainage channel liner material.
3. Eliminate odors from the top of Cell CC-3A.
4. Remove soil that is impacting retaining wall near landfill entrance.
5. Remove sediment and trash from low-flow drain at final toe berm drainage channel.

Signed: *Michael W. Lindsay*



**SUNSHINE CANYON LANDFILL**  
MITIGATION MONITORING  
SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 7
Discipline: Civil – Geotechnical and Hydrology	Date: May 23, 2017
Site Conditions: Sunny	
<b>SITE LOG</b>	
7:00 – 7:30 Met with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill, Sign-up in main office	
9:30 - 2:30 landfill tour Observed the following:	
<ul style="list-style-type: none"> <li>• Placement of waste in Cell CC4 Phase 1</li> <li>• Erosion protection system</li> <li>• Drainage systems (Basins, channels)</li> <li>• Access Roads <ul style="list-style-type: none"> <li>– Secondary exit road by Flare 10 and crest road</li> <li>– Access road to Flare 3</li> <li>– Main Access Road</li> </ul> </li> <li>• Landfill for geotechnical and hydrological issues</li> </ul>	
<ul style="list-style-type: none"> <li>• Waste Placement</li> <li>• Cell CC4 Phase 1 <ul style="list-style-type: none"> <li>– Cell was accepting waste (Photo 1)</li> <li>– Tilters in use</li> <li>– Alternative cover was used as shown on northeast corner of waste mass in the cell</li> <li>– One of the innovative gas-leachate collection system developed by Republic is visible on the eastern side of the cell (Photo 2)</li> </ul> </li> </ul>	
Erosion Protection <ul style="list-style-type: none"> <li>• All systems installed at site are in good shape</li> <li>• Posi shell has been applied to the slopes of cell CC3 (Photo 3). Close-up observation of Posi shell indicated some cracking (Photo 4) leading to repair by spraying over a new coat (Photo 5).</li> </ul>	
Drainage system <ul style="list-style-type: none"> <li>• New temporary unlined earthen basin <ul style="list-style-type: none"> <li>– basin had been partially excavated by April 18 and the spillway was cleared. Construction activities were ongoing so we could not observe if the intake tower has been dug out.</li> </ul> </li> <li>• Gabion mats installed in the channel along the access road have been removed (Photo 6)</li> <li>• Terminal Basin <ul style="list-style-type: none"> <li>– The basin has been cleared from sediments.</li> <li>– in particular those accumulated behind the midway now of gabions</li> <li>– some sediments are still accumulated behind the decant towers</li> </ul> </li> <li>• Basin A <ul style="list-style-type: none"> <li>– Sediments accumulated in basin have been removed</li> <li>– No additional soil has sloughed on the eastern edge where the gas line to Flare 3 is laid out <ul style="list-style-type: none"> <li>– Material that could slough off and fall in the basin was being removed (Photo 7)</li> </ul> </li> </ul> </li> </ul>	



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<ul style="list-style-type: none"> <li>– Some water remains in the basin with some vegetation growing (Photo 8)</li> <li>• Basin D             <ul style="list-style-type: none"> <li>– Clean</li> <li>– The earthen channels along the sides of the canyon have open access to the basin. The basin is clean</li> </ul> </li> <li>• Basin B             <ul style="list-style-type: none"> <li>– Clean</li> <li>– Some soil slid from the hill in the far corner</li> </ul> </li> <li>• The channel on the main access road on the City South Landfill deck that exhibited reverse slope and therefore ponded water was undergoing construction on April 18 and is now repaired. (Photo 9)</li> <li>• Channel between Basin D and access road to Flare 9 and 10.             <ul style="list-style-type: none"> <li>– The geomembrane installed in the channel is loose at the connection with the corrugated pipe.</li> </ul> </li> </ul>
<p>Access Roads</p> <ul style="list-style-type: none"> <li>• Some soil sloughing was observed on the slope of embankment of the access road at the level of the entrance to the terminal basin (Photo 10)</li> <li>• The extensive and deep erosion gully along the road to Flare 3 observed on April 18, 2017 has been repaired</li> <li>• The secondary access road by Flare 10 has been bladed and all erosion gullies filled in.</li> </ul>
<p>Overall landfill inspection.</p> <ul style="list-style-type: none"> <li>• no geotechnical issues were observed</li> <li>•</li> </ul>
<ul style="list-style-type: none"> <li>• 1:30-2:00 Close-out meeting with Republic Staff representative to discuss findings and status of retaining wall along San Fernando Road.</li> <li>• Republic informed UltraSystems that GLA has conducted a geological investigation of the cliff behind the clearing wall and that the report was available and was provided.</li> <li>• Mr. Dobrowolski formerly of Geosyntec who was involved in the design of the wall will inspect the wall and make recommendations for cleaning and or repair. These recommendations will be made available to UltraSystems.</li> </ul>
<p><b>FURTHER REVIEW NEEDED</b></p>
<p>None</p>
<p><b>COMMENTS</b></p>
<ul style="list-style-type: none"> <li>•</li> </ul>
<p>Signed:</p> 



Photo 1: Filling activities in Cell CC4



Photo 2: Republic gas-leachate collection well





Photo 3: Posi shell on the slope of cell CC3.



Photo 4: Cracks in Posi shell cover



Photo 5: Spraying of Posi shell

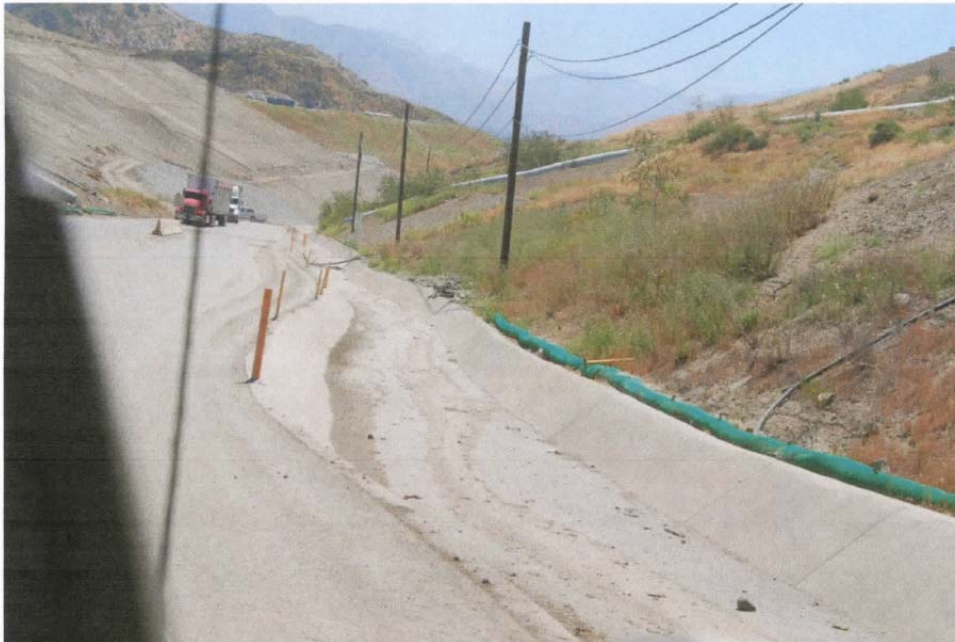


Photo 6: Channel after removal of gabion mats





Photo 7: Removal of material from Basin A

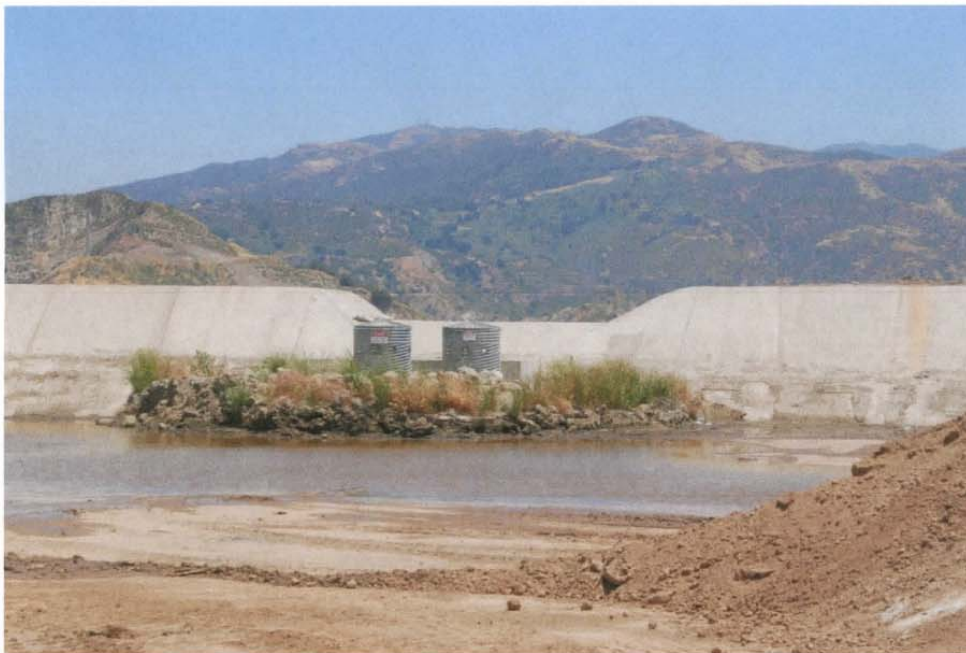


Photo 8: Water remaining in Basin A

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Photo 9: Repaired channel on old City Landfill Deck

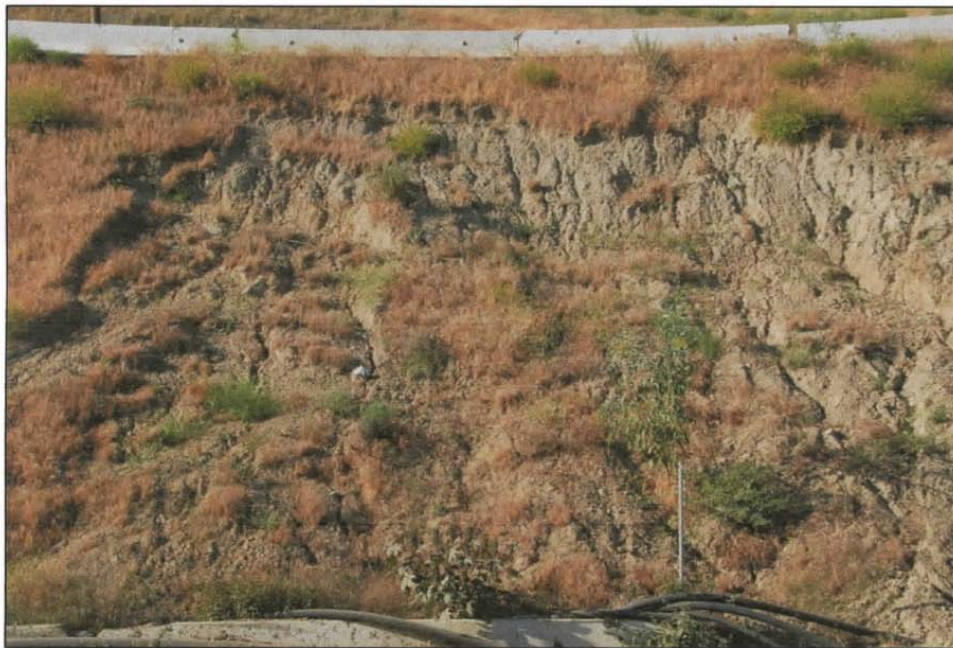


Photo 10: Soil sloughing and small slide on Access Road Embankment



# June Site Visits

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## June 20, 2017:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

Tarik Hadj-Hamou (SLR)



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 6/20/17
Site Conditions: Sunny, 80-100°F, 0-12 MPH winds	
<b>SITE LOG</b>	
<p>Republic General Manager - Rob Sherman</p> <p>Drove the Granada Hills neighborhood area from 6:15 to 7:30 a.m. and there were no landfill odors detected in the adjacent neighborhood or in the Cascade's neighborhood.</p> <p>There was increased illegal dumping of tires and debris under the I-5 overpass on San Fernando Road. Also there were numerous dump truck-sized loads of dirt and rock and construction waste dumped on the roadway shoulder in this area. This is outside of the Republic clean-up area.</p> <p>Met with Mike Lindsay (UltraSystems) and Tarik Hadj-Hamou (SLR) and signed in at the office. We had a brief conversation with Patti Costa and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• The terminal basin inlet was blocked and there was standing water in back of a dirt berm. There was no pump observed at the berm. There was standing water at the gabion wall inside the basin and at the outlet risers. The standing water provides a mosquito breeding area and a potential health hazard. The basin was free of sediment except for the outlet risers area. The risers are going to be modified in August to include a clean water skimming outlet system.</li> <li>• Closure turf was being installed on CC-3A and CC-3B south-facing slopes. Gas and condensate recovery systems were installed under the closure turf. Gas control was not fully operational.</li> <li>• Packer trucks leaking liquids onto the pavement while waiting to enter the scales were observed.</li> </ul> <p>Met with Mike Harmon (LADPW) and two County geologists. UltraSystems and the County staff had a meeting with Patti Costa and Republic's geotechnical consulting representative from GLA. The following was discussed in the meeting.</p> <p>I gave Patti Costa a copy of the City Forester's approved June 8, 2001, PM-10 berm planting plan. Patti Costa asked if there were detailed specifications on the understory shrubs and what was the reference Q - condition? I stated that I would research that and get any historic information back to her.</p> <p>I asked what the status was on performing any needed corrective action on the San Fernando Road retaining wall. Patti Costa stated that the geotechnical and engineering reports were completed and the maintenance activities will be finalized after Republic's tree expert evaluates what to do with the hillside oak trees. The maintenance will go out to bid in June, with work completed in September pending any City traffic permit delays.</p>	



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GLA discussed the CC4 Part 2 landslide on June 8th and stated that the seeps that were previously controlled by hydraugers were leaking water and had lubricated the clayey soil slope causing the slide.

We all left the office to observe the slide area and then continued the site monitoring with Mike Harmon joining the UltraSystems staff.

- The construction access road above the slide was closed. No removal of slide debris was occurring.
- Disposal operating was in Cell CC4 Part 1 with no operations concerns observed. Approximately 85% of the ADC was covered by 11:30 a.m. Two tippers were in use.
- Basin B was cleared of sediment. There was no standing water in the basin. The native back hillside had windblown litter was noted in previous monitoring visits.
- An electric power generator was installed at the Flare 9 and 10 site pad power distribution control center.
- Basin A had the bulk of sediment and construction slide soils removed. Minor clean-up of the basin is still needed. Trash and litter was observed in the back of the basin with minor windblown litter in the native hillsides.

Flare Operating Conditions:

- Flare 1 - 1690°F, 3304 SCFM, -57.80" vacuum, 36% CH<sub>4</sub>. There was a gas leak detected coming from the operating blower.
- Flare 3 - shut down
- Flare 9 - 1677°F, 3884 SCFM
- Flare 10 - 1657°F, 3742 SCFM, -62" vacuum, 40.02" out

The gas-to-energy plant was using 9038 SCFM of recovered landfill gas, 46.0% CH<sub>4</sub>.  
The facility was at 100% production.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 06-20-2017 Tuesday
Site Conditions: Clear, 80–101 °F, 3–12 mph, 37% RH	
SITE LOG	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office and with Patti Costa (Republic).</li> <li>2. Observed liquids dripping from the back of two packer trucks queued at scales.</li> <li>3. Observed new closure turf installed on City slopes above haul road.</li> <li>4. Terminal basin is in good condition, with all sediment removed from basin. Some standing water is present at vertical riser drains and on the back side of the central gabion wall, which could be a concern for mosquito breeding.</li> <li>5. Met with Mike Harmon (LACDPW).</li> <li>6. Met with Patti Costa, Mark (GLA) and County geologists. <ol style="list-style-type: none"> <li>a. Jim Aidukas presented the approved June 8, 2001 plan drawing for the PM-10 berm planting, including coast live oak and understory.</li> <li>b. Patti Costa stated that Republic needs the Q-Condition that references this planting plan and states to plant understory shrubs.</li> <li>c. Jim Aidukas asked what the status was for the front retaining wall repair.</li> <li>d. Patti Costa stated that the removal of the stone blocks on the slope, the trees, and the soil behind the wall will all be performed as a maintenance procedure, to be completed before the rainy season.</li> <li>e. Mark from GLA stated that the northwest slope of Cell CC4 Part 2 has a 1.5:1 cut slope that had a block failure (slide) on June 8, 2017 at about 8:00 am. And that bedding shears were driven by the hydraugers, installed about three years ago for dewatering.</li> </ol> </li> <li>7. Observed construction slide area, including some standing water at base of slope.</li> <li>8. Bird abatement is in force, including falconer with five falcons.</li> <li>9. Cell CC 4 Part 1 working area is in good order, including two tippers in operation. ADC is 85% covered by new trash at 11:30 am.</li> <li>10. New closure turf on City slopes includes gas pressure relief valve systems.</li> <li>11. Traffic spotters are onsite to control traffic.</li> <li>12. Sediment basin B is clear of sediment, and is ready for the wet weather season.</li> <li>13. Flare 9 is operating at 3875 scfm, 1685 °F. Gas sample measured at 46 % Vol. CH<sub>4</sub>, 3.2 % Vol. O<sub>2</sub>, 59 ppm H<sub>2</sub>S and over 500 ppm CO. Blowers 1, 3 and 4 are in operation.</li> <li>14. Flare 10 is operating at 3810 scfm, 1647 °F, with a gas inlet temperature of 172 °F.</li> <li>15. Water trucks are applying water throughout site for dust control.</li> <li>16. Sediment basin A is in good order, with some trash and debris at the back of basin.</li> <li>17. Flare 1 is operating at 3304 scfm, 1678 °F. Gas sample measured at 36 % Vol. CH<sub>4</sub>, 3.2 % Vol. O<sub>2</sub>, 98 ppm H<sub>2</sub>S and 46 ppm CO. Gas inlet temperature is at 164 °F.</li> <li>18. Met with Patti Costa, Jennifer and Ricky Dhupar (Republic), and discussed our site monitoring observations.</li> </ol>	



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**FURTHER REVIEW NEEDED**

1. Prevent packer trucks from leaking liquids from back of truck.
2. Remove standing water from terminal basin.
3. Remove trash at back of sediment basin A.

Signed:

*Michael W. Lindsay*



**SUNSHINE CANYON LANDFILL**  
**MITIGATION MONITORING**  
**SITE REPORT**

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 7
Discipline: Civil – Geotechnical and Hydrology	Date: June 20, 2017
Site Conditions: Sunny and very hot	
<b>SITE LOG</b>	
7:00 – 8:30 Met with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill, Sign-up in main office. Met with Patti Costa of Republic to set-up meeting times to discuss PM-10 berms an, landslide, and retaining wall on San Fernando Road.	
8:30 - 1:45 landfill tour Observed the following: <ul style="list-style-type: none"> <li>• Placement of waste in Cell CC4 Phase 1</li> <li>• Erosion protection system</li> <li>• Drainage systems (Basins, channels)</li> <li>• Landfill for geotechnical and hydrological issues</li> <li>• Landslide in Cell CC4 – Phase 2</li> <li>• Closure Turf on slopes of Cell CC3</li> </ul> Attended Meetings: <ul style="list-style-type: none"> <li>• PM10. Berm vegetation plan</li> <li>• Retaining wall on San Fernando Road</li> <li>• Landslide on excavation of Cell CC4</li> </ul>	
Waste Placement in Cell CC4 Phase 1 <ul style="list-style-type: none"> <li>• Cell was accepting waste (Photo 1)</li> <li>• 2 Tilters were in use</li> <li>• Alternative cover was used as shown on northeast corner and southwest corner of waste mass in the cell</li> </ul>	
Erosion Protection <ul style="list-style-type: none"> <li>• All systems installed at site are in good shape</li> <li>• Posi shell applied to the slopes of Cell CC3 is holding out. we did not notice any new cracks in areas monitored on May 25, 2017</li> </ul>	
Drainage system <ul style="list-style-type: none"> <li>• New temporary unlined earthen basin <ul style="list-style-type: none"> <li>– Basin is partially excavated and the spillway was cleared. Construction activities were ongoing so we could not observe if the intake tower was dug out.</li> </ul> </li> <li>• Terminal Basin <ul style="list-style-type: none"> <li>– The basin has been cleared from sediments.</li> <li>– some sediments are still accumulated behind the decant towers (Photo 2)</li> </ul> </li> <li>• Basin A <ul style="list-style-type: none"> <li>– Sediments accumulated in basin have been removed</li> <li>– Some water remains in the basin with some vegetation growing near the decant towers (Photo 3)</li> </ul> </li> </ul>	



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<ul style="list-style-type: none"> <li>• Basin D               <ul style="list-style-type: none"> <li>– Clean</li> </ul> </li> <li>• Basin B               <ul style="list-style-type: none"> <li>– Clean</li> </ul> </li> <li>• Channel between Basin D and access road to Flare 9 and 10.               <ul style="list-style-type: none"> <li>– The geomembrane installed in the channel is still loose at the connections with the corrugated pipe.</li> </ul> </li> </ul>
<p>Landslide in CC4</p> <ul style="list-style-type: none"> <li>• Observed with Representatives of Republic; Geo. Logic, and geologist from the LA County D.P.W.</li> <li>• The landslide occurred on west side of excavation for Cell CC4-Phase 2 (Photo 4)</li> <li>• Landslide occurred around 8AM prior to beginning of heavy equipment traffic</li> <li>• Slide extends from bottom of cut to top of grade and also took out a ramp built halfway up the slope (Photo 5) separating the landslide mass in an upper and a lower portion</li> <li>• Seeps were observed at toe of slide and northernmost corner of area (Photo 5). Seep on northern corner is characterized by reddish tint indicating the presence of iron in the formation</li> <li>• Observation of debris shows planes of slickenside on clayey soil blocks dipping out of slope (Photo 6)</li> <li>• Republic geotechnical consultant (Geo-logic) is analyzing the landslide and will provide a remediation solution.</li> </ul>
<p>Overall landfill inspection.</p> <ul style="list-style-type: none"> <li>• no geotechnical issues were observed</li> </ul>
<p>Closure Turf on slopes of CC3:</p> <ul style="list-style-type: none"> <li>• The slopes of cell CC3 were covered with Closure Turf manufactured by Watershed Geo (Photo 7)</li> <li>• It is our understanding that a horizontal gas collection system was installed under the Closure Turf as well as relief valves (Photo 8) to prevent uplift of the Closure Turf in case of landfill gas accumulation</li> <li>• Existing gas recovery wells were extended through Closure Turf (Photo 8)</li> </ul>
<p>Retaining wall on San Fernando Road:</p> <ul style="list-style-type: none"> <li>• Met with republic and LADPW representative to discuss reviews of analysis prepared by Republic consultants Geo-logic (for geology) and Dave Edwards inc. (structural integrity)</li> <li>• The new consultants addressed the concerns expressed by the compliance monitoring team proposed mitigation solutions</li> <li>• It is our understanding that the work will take place before the next rainy season</li> </ul>
<p>Revegetation on Berm PM-10:</p> <ul style="list-style-type: none"> <li>• No geotechnical or civil design issues associated with the berm</li> </ul>
<p>Access Roads</p> <ul style="list-style-type: none"> <li>• we did not drive up the access roads, namely access road to Flare 3 to monitor the erosion observed in previous visits</li> </ul>
<p>1:45-2:15 Close-out meeting with Republic Staff representative to discuss findings of visit and conclude on course of action for retaining wall and landslide</p>

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**FURTHER REVIEW NEEDED**

None

**COMMENTS**

Understanding of the cause of the landslide in cell CC4-Phase 2 is critical to develop the remediation solution. The analysis should include past geologic reports and studies including that performed for the old administration pas that used to be located above the areas of the landslide

Signed:



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Photo 1: Filling activities in Cell CC4



Photo 2: Sediments behind decant towers at Terminal Basin



Photo 3: Vegetation growing in Basin A



Photo 4: Landslide on west side of excavation for Cell CC4 Phase 2



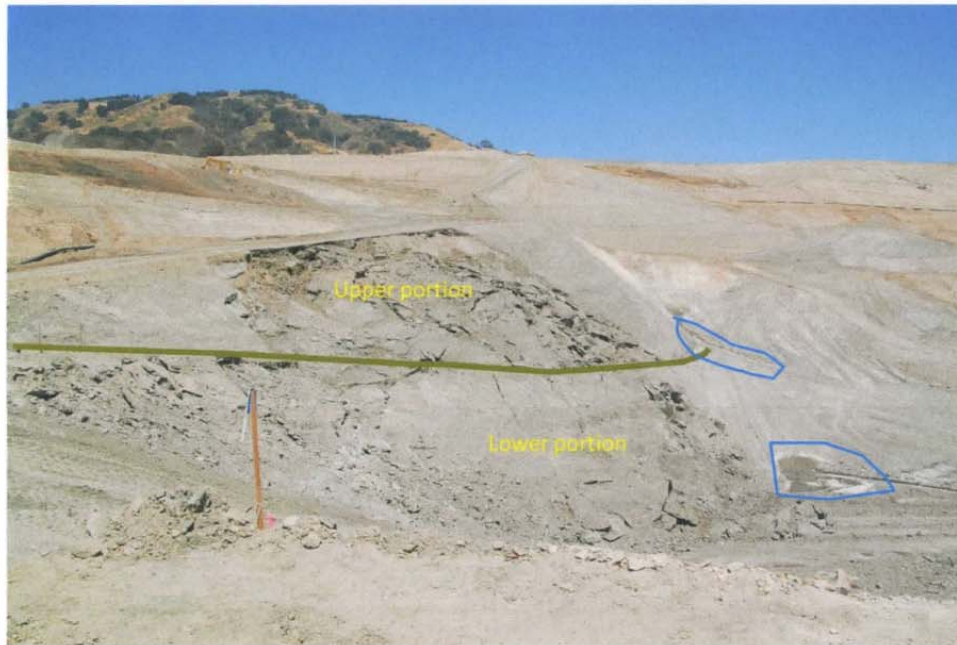


Photo 5: Details of slide in Cell CC4 Phase 2



Photo 6: Plane of slickenslide in debris of excavation of Cell CC4

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Photo 7: Overview of Closure Turf on Cell CC3 slope

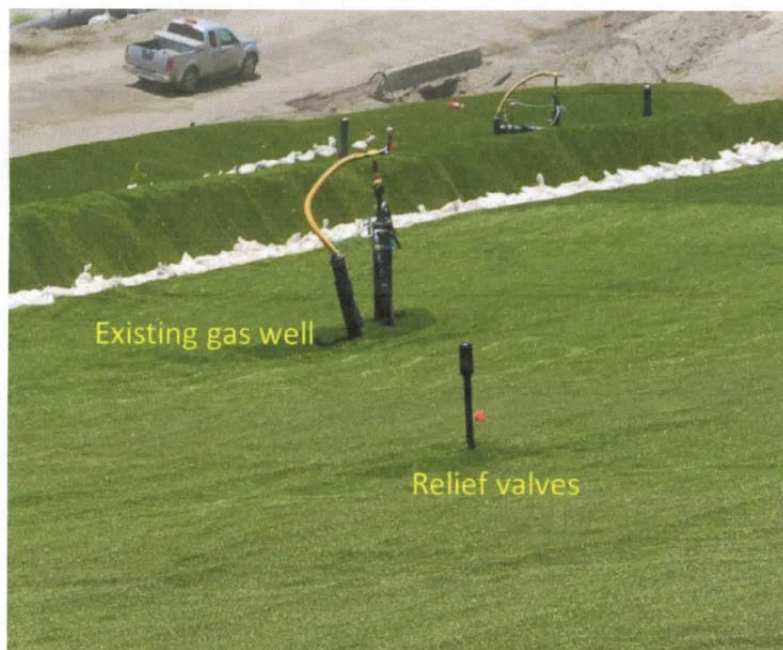


Photo 8: Landfill gas well extended through Closure Turf and gas vent to prevent uplift



# Appendix IV

## Meeting Logs

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**Sunshine Canyon Landfill  
Meeting Log for April 2017 Site Monitoring**

April 18, 2017

Post-monitoring meeting with Patti Costa, Kate Logan, Ricky Dhupar and Tyson Ross (Republic).

**Attendees:**

Mike Harmon, LACDPW  
James Aidukas, UltraSystems  
Tarik Hadj-Hamou, 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 no landfill odors were detected in adjacent neighborhood between 6:30 and 7:30 am. There was, however, a strong greenwaste odor between Orozco Street at Titian and the Van Gogh Elementary School at approximately 7:15 am. The odor seemed to be coming from the south. Mike Lindsay drove to the greenwaste facilities on Blucher Avenue at approximately 8:00 am and detected a strong greenwaste odor (eucalyptus) near the North Hills Recycling facility.
  - o Patti Costa acknowledged the statement.
- b. James Aidukas stated that the drainage channel near Edison pole #37 does not have a pedestrian guard at the top slide entrance. This could be a dangerous attractive nuisance for anyone who is hiking the Bee Canyon ridgeline.
  - o Patti Costa stated that they will notify Edison of the condition, and requested that UltraSystems provide photos of the drainage channel.
- c. James Aidukas stated that the monitoring team observed that sediment removal was underway in Basin A and that the outlet channel was not blocked. He asked what was going to be done with the Edison graded slope that was sloughing soil into the basin.
  - o Tyson Ross stated that the cut slope area is part of the CC-4 Part 3 buttress, and will be modified or removed when the buttress is constructed. Until then, they will look for a temporary solution to control soil sloughing into the basin.
- d. James Aidukas stated that the access road to Flare 3 had deep erosion ruts along the roadside.
  - o Patti Costa stated that the repairs are waiting for County approval of the buttress and access roadway.
- e. James Aidukas stated that the monitoring team observed that the section of the westside drainage channel that had the floor uplifting and sidewalls cracking and shifting on the March 9th site monitoring visit has been repaired.
  - o Patti Costa stated that the channel was just repaired.
- f. James Aidukas stated that the Basin D outlet channel had the HDPE liner uplifted from the concrete channel and it pulled away the Edison-installed corrugated steel pipe. Soil and debris was under the liner.



- Tyson Ross stated that they will look at the condition of the HDPE liner and take appropriate action.
- g. James Aidukas stated that sediment Basin B had a minor amount of sediment on the floor of the basin. It was also observed that there were piles of sediment and debris along the back concrete walls. Also noted was litter in the back native hillside.
  - Tyson Ross stated that Basin B was the next basin to have all of the sediment cleared. The sediment and wind-blown litter along the back walls will be removed. A best effort will be done to remove, as much as possible, the wind-blown litter on the steep native hillsides.
- h. James Aidukas asked if the condensate and leachate liquids being processed and held in the Alder Tanks on the Old City North top deck are going to be sewered.
  - Patti Costa stated that those liquids will not be sewered. They will be trucked offsite for any additional processing and disposal.
- i. James Aidukas stated that there was approximately 16,700 SCFM of landfill gas, with a methane content of 50% by volume, being recovered today. Only 7966 SCFM was being used for renewable energy power generation. Considering the number of new wells now being drilled, it is foreseeable that there would be adequate gas volumes this year to run a second gas-to-energy facility, like the current-sized plant.
  - Patti Costa stated that Republic's corporate renewable energy department is investigating the possible expansion of the existing gas-to-energy facility or the addition of a new gas-to-energy plant. Additionally, the landfill staff has placed the order for a new Flare 11.
- j. James Aidukas stated that the monitoring team observed that the Deck A water tank foundation has been backfilled and the tank ladder access cover has been locked.
  - Patti Costa acknowledged the statement.
- k. James Aidukas stated that the well drilling rig on the top deck of Cell CC-3A was dumping odorous well drilling waste on the ground. The dump truck to haul the waste away was dumping a load at the disposal area. This wet odorous waste was causing a strong odor over a large area.
  - Patti Costa stated that they will investigate what occurred and notify the drilling personnel that the drilling protocols must be complied with.
- l. Mike Harmon asked if there were any revegetation plans for the Flare 11 pad back hillside slope.
  - Patti Costa said not at this time. Republic is testing four different vegetation approaches on plots near the administration building. The best will be implemented as identified in the vegetation plan.
- m. Mike Harmon asked what was the status of the ICE project.
  - Patti Costa stated that the final application was done on March 2nd.


The post-monitoring meeting was then adjourned.

April 18, 2017

A special meeting was called by Republic to discuss the retaining wall repair, with Patti Costa, Todd Whittle, Kate Logan, Ricky Dhupar and Tyson Ross (Republic), and Republic's consultants from Sukut Construction and Geo-Logic Associates (GLA).

Monitoring Team Attendees:

Mike Harmon, LACDPW  
James Aidukas, UltraSystems  
Tarik Hadj-Hamou, UltraSystems  
Mike Lindsay, UltraSystems



Discussion:

We had a special meeting with Republic Services to discuss the current condition of the retaining wall south of the landfill entrance along San Fernando Road, which is being impacted with sloughed soil from the adjacent slope above. We received comments and updates as follows:

- a. Patti Costa gave an overview of the retaining wall condition, as the wall is part of the landfill's permit conditions.
- b. Patti Costa stated that delays in repairing the wall have been due to the Southern California Gas Company's natural gas pipeline project on San Fernando Road and the wet weather season.
- c. Patti Costa stated that Republic wants to eliminate any safety concerns and satisfy the permit conditions.
- d. Patti Costa stated that the County task force has asked for an update on repairing the retaining wall, and that the County considers it a maintenance item.
- e. James Aidukas stated that ideally all the soil on top of the wall and in front of the wall would be removed. Any slope loose material should be removed and the surface of the slope covered with a stabilizing net. The chain link fence on top of the wall should be straightened and repaired, the drainage system on top of the wall re-established and the 2.5' wide walkway in front of the wall made functional. That all said, any maintenance efforts could be limited by geology issues including slope stability and the potential for a landslide.
- f. Tarik Hadj-Hamou stated that it is important to have a geologist review the existing slope and wall conditions and historical geological records before doing any maintenance work. He stated that the wall is built close to a vertical cliff and that the wall is not designed for this extra load and it could fail. Also, he said that the trees at the crest of the slope pose a potential problem. Prior to cleaning the soil behind the wall, a geologist or geotechnical engineer should look at the overall conditions of the site to limit the risk of failure.
- g. GLA stated that there probably has never been a geologic stability study performed on the slope.
- h. Tarik Hadj-Hamou stated that it is important to determine if removing material from the slope's toe will cause a large landslide.



- i. Mike Harmon stated that the County would like to see what is planned by way of inspection, reporting and actions proposed.
- j. Patti Costa stated that Republic will authorize a geologic survey to determine the risk involved, and then decide what course of action to take.
- k. Patti Costa stated that any tree trimming and/or tree removal will occur only after the geologic survey and the bird nesting season.

The meeting was then adjourned.

**Sunshine Canyon Landfill  
Meeting Log for May 2017 Site Monitoring**

May 9, 2017

Post-monitoring meeting with Patti Costa, Ricky Dhupar and Tyson Ross (Republic).

Attendees:

Vu Truong, 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. Patti Costa stated that they are considering the gas-to-energy facility expansion, and that getting County approval is the first step. Also, the Republic corporate gas department is handling any new or expansion of the existing facility.
- b. Patti Costa stated that the retaining wall slope analysis for the San Fernando Road wall is being done next week, with reports to follow and a plan of action in place by mid-June. Any repairs or corrective action will be taken before the wet weather season begins.
- c. Patti Costa stated that the oak tree branches that are laying on top of the fiber optic lines along San Fernando Road are being evaluated for trimming by Republic's arborist.
- d. Patti Costa stated that the Posi-Shell drainage system is being evaluated for effectiveness by the site engineers.
- e. Tyson Ross stated that the terminal basin sediment removal process will begin tomorrow, with the complete clean-out target set for the end of May.
- f. James Aidukas stated that no landfill odors were detected in the adjacent neighborhood between 6:45 and 7:30 am.
  - Patti Costa acknowledged the statement.
- g. James Aidukas stated we observed that the Cell CC-3A slopes have been fixed, but that the slopes above Cell CC-3B have deep erosion ruts.
  - Tyson Ross stated that there is 30,000 cubic yards of stockpiled soil at that location, and that any debris mixed in the soil was wind-blown trash.
- h. James Aidukas stated that the City Deck C sage mitigation area looks good, but that it needs to have the mustard plant removed.
  - Patti Costa stated that they will have it removed.
- i. James Aidukas asked if there were any plans to plant the PM-10 understory vegetation.
  - Patti Costa stated that they have not evaluated when the understory vegetation will be planted.



- j. James Aidukas stated that there was standing water at the outlet risers at both sediment basins A and B.
  - Tyson Ross stated that they will pump out the water, and will have the rock filter berm cleaned and replaced by September.
- k. James Aidukas stated that there were localized odors at: 1) the haul road by the cattle guard, 2) the sewer tie-in where the heavy rubber mats were removed and not replaced, and 3) the liquid tote tanks that were un-capped and venting by Flare 9/10 blowers.
  - Patti Costa stated that they will address each of those odor sources.
- l. James Aidukas stated that there is additional trash and debris that has been dumped along San Fernando Road under and adjacent to the I-5 overpass, including 25 five-gallon containers with lids in place.
  - Patti Costa stated that everyone should call the City to notify them. Republic stated they would call it in. UltraSystems was also going to call it in.
- m. James Aidukas stated that landfill gas production is over 16,000 SCFM.
  - Patti Costa acknowledged the statement.
- n. Patti Costa stated that she sent Edison a picture of the water chute drainage channel and our safety concerns, and has not received a response.
- o. Mike Lindsay stated that there is wind-blown trash at the back of sediment basins A and B.
  - Tyson Ross stated that they will have the trash removed.
- p. Mike Lindsay stated that the low-flow drain is blocked at the CC-3B sediment basin.
  - Tyson Ross stated that they will clear the blocked drain.
- q. James Aidukas stated that the eastside drainage channel gabion water dissipaters are significantly impacted with soil and trash.
  - Tyson Ross stated that they will all be cleaned out by the end of September.
- r. Vu Truong asked what the schedule is for the basin and channel cleanouts.
  - Tyson Ross stated that the basins will all be cleaned out by July, and all the channels will be cleaned out by October 1.
- s. Vu Truong asked when the Cell CC-4 Part 1 and Part 2 connection will be completed.
  - Tyson Ross stated that the connection will be completed in midsummer.
- t. Mike Lindsay asked if a paleo monitor is working at Cell CC-4 Part 2 for the excavation of native soil.
  - Tyson Ross stated that JMA is always onsite for native soil excavation.

The meeting was then adjourned.

May 23, 2017

Post-monitoring meeting with Patti Costa and Kate Logan (Republic).

Attendees:

James Aidukas, UltraSystems  
Tarik Hadj-Hamou, 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 there was a strong liquids odor coming from the sewer lift pump vault which could be detected at the San Fernando Road block wall. The rubber mat to cover the vault access panels was not being used.
  - Patti Costa stated that she will notify operations to keep the mats in place.
- b. James Aidukas stated that the terminal basin appears to be in good shape.
  - Patti Costa stated that a new skimmer drainage system is being designed and is scheduled to be installed this summer.
- c. James Aidukas stated that there is a soil slide area along the main access road embankment that faces the terminal basin.
  - Patti Costa stated that they will inspect and address any problem areas before the wet weather season.
- d. James Aidukas stated that the Posi-Shell test area south of Sediment Basin B has areas that are cracking and sloughing.
  - Patti Costa stated that she has not seen the surface emission data for that area. Operations will be notified of our observations.
- e. James Aidukas stated that Sediment Basin B has some soil that has sloughed into the basin at the back walls of the basin.
  - Patti Costa acknowledged the statement.
- f. Tarik Hadj-Hamou stated that Sediment Basin A is in good condition, and appears to have an ongoing effort to keep up with the sloughing of soil from the southern slope.
  - Patti Costa stated that they will continue to keep up with it.
- g. James Aidukas stated that the total landfill gas flow is at 17,000 SCFM today.
  - Kate Logan stated that they are almost complete with installing 250 new liquid removal pump wells and 150 new gas wells.
- h. James Aidukas stated that the liquid tote containers at the Flare 9/10 blowers have been capped, and no odors were detected.
  - Patti Costa acknowledged the statement.
- i. James Aidukas stated that the inlet gas temperature at the inlet to Flare 9 and 10 is running hot, 156 °F.



- Patti Costa stated that they will investigate the high temperature.
- j. James Aidukas stated that landfill gas wells number GW-2087 and GW-2088 had strong gas odors around them.
  - Patti Costa stated that they will have the wells checked.
- k. James Aidukas asked what was the status of the geotechnical work for the San Fernando Road retaining wall.
  - Patti Costa stated that they received the geotechnical report and proposed scope of work from GLA, and that another assessment is being performed on May 24th by Jeff Dobrowolski, formerly of GeoSyntec, with regard to the wall design parameters. Once completed, both reports and recommended actions will be available for review. The plan is to finish all repair work to the wall and slope before the wet weather season begins.
- l. James Aidukas stated that the Phase II area at the County top deck was measured to have an elevation of 1,903 feet, which is under the 1,904-foot 2007 grading plan limit.
  - Patti Costa stated that soil is being stockpiled in that area.
- m. James Aidukas stated that it looks like there is geotechnical drilling occurring near the terminal basin.
  - Patti Costa stated that the geotechnical drilling was for the ultimate toe berm, and that they are installing inclinometers, piezometers, etc.
- n. Mike Lindsay stated that the gas-to-energy plant was shut down due to a thermal event, and that soot and ash was present in the filter system, per the facility operator.
  - Kate Logan stated that they will follow-up with the Sunshine Gas Producers' staff.

The meeting was then adjourned.

**Sunshine Canyon Landfill  
Meeting Log for June 2017 Site Monitoring**

June 20, 2017

Post-monitoring meeting with Patti Costa, Jennifer Baker, and Ricky Dhupar (Republic).

Attendees:

Mike Harmon, LACDPW  
James Aidukas, UltraSystems  
Mike Lindsay, UltraSystems  
Tarik Hadj-Hamou, SLR



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 liquids were observed dripping from two packer trucks while waiting in line at the scales.
  - Patti Costa acknowledged the statement.
- b. Mike Lindsay stated that there was standing water at the entrance and in the terminal basin, which provides a mosquito breeding area. This could be a potential health hazard.
  - Patti Costa stated that she will notify operations to de-water the areas with standing water.
- c. James Aidukas stated that it was observed that there were areas of the closure turf that had gas ballooning the turf and that gas odors were detected in some areas. The landfill gas collection system under the new closure turf did not seem fully operational.
  - Jennifer stated that the gas recovery system was not fully operational and that they will fully commission and tune the gas control system after construction ends.
- d. James Aidukas stated that total landfill gas production is over 19,000 SCFM.
  - Patti Costa acknowledged the statement.
- e. James Aidukas stated that the Flare 1 blower has a flange gas leak.
  - Jennifer Baker stated that they would have Tetra Tech repair the gas leak.
- f. Mike Lindsay stated that basin A had trash at the back of basin and windblown litter in the native hillside vegetation.
  - Patti Costa acknowledged the statement.
- g. James Aidukas stated that there was increased illegal dumping of tires and debris under the I-5 overpass on San Fernando Road. Also, there were numerous dump truck-sized loads of dirt and rock and construction waste dumped on the roadway shoulder in this area.
  - Ricky Dhupar stated that he will notify the City 311 clean-up hot line staff.
- h. Mike Harmon asked what the approach was for the ICE project re-monitoring effort.
  - Jennifer Baker stated that they will analyze the data, and evaluate for the variables.



- i. Mike Harmon stated that the DPW would like the GLA reports regarding the retaining wall analysis and repair.
  - o Patti Costa stated that she will look into distributing the reports.

The meeting was then adjourned.