

**Sunshine Canyon Landfill  
Independent Monitor  
Quarterly Site Monitoring Status Report  
January 1, 2019 – March 31, 2019**

*Prepared For:*

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

*And*

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



*Prepared By:*



16431 Scientific Way  
Irvine, California 92618

*Prepared On:*

April 29, 2019



**UltraSystems**  
environmental | management | planning

## **CERTIFICATION STATEMENT**

April 29, 2019

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated April 29, 2019 is the First Quarterly Report for 2019, issued by UltraSystems. This report covers the monitoring period from January 1, 2019 through March 31, 2019 and is prepared for the City of Los Angeles Department of City Planning and the County of Los Angeles Department of Regional Planning.

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

Signed,

James T. Aidukas

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-a through I-d
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 January 1, 2019 to March 31, 2019. It includes:

1. The City and County Mitigation Monitoring Summary spreadsheets for January 1, 2019 to March 31, 2019. These spreadsheets record the areas of monitoring completed and the status of being compliant during the first quarter of 2019;
2. A Status Summary of Non-Compliant, Further Review Needed and Compliant with the requirements of the conditions and/or mitigation measures;
3. Photo Location Map and Relevant Site Photos showing site conditions of key areas of the landfill during this quarter;
4. Site visit attendees by date of site visit and the mitigation monitoring site report from each monitor;
5. Meeting logs documenting any meetings with Republic staff and/or public agencies, with the topics discussed; and
6. Any site monitoring documenting site changes.



## Site Visits During the Quarter

Four site visits were performed by UltraSystems during the January through March 2019 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on January 22, 2019; February 21, 2019; March 5, 2019; and March 28, 2019. The previously discussed conditions and/or mitigation measures were tracked by each specialist who visited, and observations were documented. Site conditions were noted to be: Compliant, Non-Compliant, or Further Review Needed. If a Condition was found to be Non-Compliant or observed as having Further Review Needed, a reference was made to an appendix which details what was observed by the monitor.

## Definition of Terms

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

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

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

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

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

## Status Summary

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

### Compliant

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

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

### **Non-Compliant**

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

### **Further Review Needed**

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

#### **Q-B.2.c (City)**

*Ancillary Uses and Facilities. The subject property may only be used for the following uses and facilities. These ancillary uses and facilities described in the July 1997 Draft Subsequent EIR, pages 2-38 through 2-43, and may be located on the applicant's property generally in conformance with the diagram attached as Exhibit e-4, and during the life of the landfill, may be moved or relocated following commencement of 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** – Throughout the 1st Quarter, the Cell CC-4 Part 3 buttress grading and construction was occurring. This grading and buttress construction were the only grading being done outside of the prior-approved grading footprint.

In mid-January, a slight movement of the slide in the CC-4 Part 3 buttress area occurred, and all grading was stopped and a remediation plan was designed and implemented. Once movement was stopped, the buttress had additional movement detection devices installed, and grading and construction continued.

In mid-February, the CC-4 Part 3 buttress grading and construction continued. There were no impacts that needed repair from the heavy rain events.

In early March, rain events caused significant erosion in the buttress' northern area, and filled the temporary basin. Repairs were underway.

In late March, the CC-4 Part 3 buttress had grading and soil placement occurring. A paleontologist was on site monitoring grading in native areas. The buttress construction was about 95% complete.

**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** – In the 1st Quarter of 2019, the site made operation changes from that in the 4th Quarter of 2018. Untreated dirt roads were not being used. Access roads were surfaced with recycled aggregate and wetted by water trucks. The number of water trucks in use was increased. Road-generated dust was not a concern.

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

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

**Current Status/Comments** – During the 1st 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-January, the gas-to-energy plant was using 9058 SCFM of recovered landfill gas, 46% CH<sub>4</sub>, 1.6% O<sub>2</sub>, 85 ppm H<sub>2</sub>S. Flare 1: 1978 SCFM; Flare 3: shut down; Flare 9: 3391 SCFM; Flare 10: shut down; Flare 11: 3351 SCFM. The total volume of landfill gas being recovered was 17,778 SCFM.

In mid-February, the gas-to-energy plant was using 7855 SCFM of recovered landfill gas, 43% CH<sub>4</sub>, 1.2% O<sub>2</sub>, 80 ppm H<sub>2</sub>S. Flare 1: 2152 SCFM; Flare 3: shut down; Flare 9: 2928 SCFM; Flare 10: 3000 SCFM; Flare 11: 3014 SCFM. The total volume of landfill gas being recovered was 18,949 SCFM.

In early March, the gas-to-energy plant was using 5542 SCFM of recovered landfill gas, 47% CH<sub>4</sub>, 1.7% O<sub>2</sub>, 80 ppm H<sub>2</sub>S. Flare 1: 2290 SCFM; Flare 3: shut down; Flare 9: 2928 SCFM; Flare 10: 2989 SCFM; Flare 11: 2935 SCFM. The total volume of landfill gas being recovered was 16,600 SCFM.

In late March, the gas-to-energy plant was using 8006 SCFM of recovered landfill gas, 45% CH<sub>4</sub>, 1.0% O<sub>2</sub>, 100 ppm H<sub>2</sub>S. Flare 1: 2149 SCFM; Flare 3: shut down; Flare 9: 2789 SCFM; Flare 10: 2784 SCFM; Flare 11: 2665 SCFM. The total volume of landfill gas being recovered was 18,393 SCFM.

The quantity of landfill gas being recovered during the 1st Quarter has averaged 17,930 SCFM, with the gas-to-energy plant usage averaging 7,615 SCFM. An expansion of the gas-to-energy plant or different beneficial use facility should be evaluated.

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

**T-4 (City)**

*Prepare a plot plan ["fire plan"] to the satisfaction of the Fire Department.*

*a. immediate access fire plan [now]*

*b. plot plan for the future facilities will be submitted when these are implemented*

**Fire Service - 12.03 (County)**

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

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

**M-4.1.1(2) (City)**

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

**M-4.1.1(4) (City)**

*Grading that allows for construction of ancillary facilities outside of the landfill footprint or that has the potential to impact property beyond the boundary of the landfill shall be approved by the Department of Building and Safety.*

**M-4.1.1(5) (City)**

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

**M-4.1.5(12) (City)**

*Geologic Hazards - Liquefaction*

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

**M-4.14.1(155) (City)**

*Construction of the realigned access roadway shall not exceed 15 percent in grade. An access road shall be constructed and maintained around the working area of the landfill for emergency access for firefighting equipment.*

**Geology-1.07 (County)**

*All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report prepared specifically for the proposed Project, including provisions for excavation*

*approved by the County Department of Public Works, the County Local Enforcement Agency (LEA) and other Responsible Agencies.*

**Current Status/Comments** – Throughout the 1st Quarter, out-of-approved landfill footprint grading occurred for a Cell CC-4 Part 3 buttress. Grading plans have been approved by the County Department of Public Works' Civil Engineering and Permitting sections. The only other grading occurring in this quarter was for maintaining areas of Cell CC-4 Part 1 and 2, and the removal of stockpiled soil for waste cover from soil in Cell CC-3A, and from the buttress stockpile area and grading of Cell CC-3A western slopes. These activities are inside the approved landfill footprint. Access roads were being maintained around the working area for emergency access.

In late March, the CC-4 Part 3 buttress was approximately 95% complete.

**M-4.1.1(6) (City)**

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

**M-4.2.11(23) (City)**

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

**M-4.2.12 (28) (City)**

*Site Erosion*

*c. A temporary vegetation cover shall be established on all slopes that are to remain inactive for a period longer than 180 days.*

*d. An SCAQMD approved soil stabilization (sealant) product shall be used to retard soil erosion and enhance revegetation. Soil sealant shall be applied when necessary to selected working areas of the landfill. The sealant will also be used as a binder or tackifier to hold seen during revegetation mulch, and fertilizers in-place until grasses become establish and stabilize on the landfill surface.*

**Geology-1.13 (County)**

*Revegetation and erosion control of all exposed slopes will be an ongoing process. The erosion controls to be implemented at the site will include soil stabilization measures and revegetation in accordance with the approved Revegetation Program. The installation of interceptor ditches shall be designed for the diversion of storm runoff to sedimentation basins. Sediment traps will be used at points of runoff concentration along the perimeter of exposed slopes surfaces.*

*Condition: Approval of drainage plan. Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.*

**Geology-1.14 (County)**

*To prevent soil erosion on the face of the landfill, interim vegetation measures will be taken after placement of the temporary soil layer (even though the area may be disturbed by future filling operations). Vegetative cover will be placed as in the approved Revegetation Program.*

*Condition: Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.*

**Biota – 4.42 (County)**

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

**Air Quality - 6.02 (County)**

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

**Visual-10.08 (County)*****Cover/Revegetation Requirements***

*The permittee shall comply with the following cover and re-vegetation requirements at the Landfill:*

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

***Revegetation Requirements***

*(5) Notwithstanding the foregoing, the permittee shall not be bound by the previous provisions of this Condition No. 44, but instead by the requirements of the County LEA, so long as the Limits of Fill are not exceeded, if in consultation with the Department of Public Works, the County LEA determines that a different re-vegetation design or plan:*

*(1) would better protect public health and safety;*

*(2) would enable revegetation of the final slopes at least as well as shown in Exhibit "B" described in subsection D, above; and/or experts, including an independent, qualified bio (3) would be required because the minimum standards adopted by the CIWMB have been amended;*

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

**Biota - Revegetation - 44.A (County)**

*A. The Permittee shall apply a temporary hydroseed vegetation cover on any slope or other Landfill area that is projected to be inactive for a period greater than 180 days, as set forth in the IMP. The*



*Permittee shall promptly notify the SCL-LEA and the Department of Public Works of any such slope or area.*

**Revegetation - 44.F/44.F CUP (County)**

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

**Current Status/Comments** – During the 1st Quarter, Closure Turf was functioning well and being maintained. Gas and liquids recovery systems from under the Closure Turf were performing well. The Posi-Shell areas were being maintained, but being reduced in area covered. Some of these areas were replaced with Closure Turf. These cover materials were in lieu of vegetation, and controlled and eliminated dust and erosion. In November 2018, numerous areas of the inactive site and completed buttress slopes were hydroseeded. The perimeter landfill road was improved using recycled concrete and asphalt. Dust was not being generated by use of this road. The main access road was surfaced with recycled aggregate. Two water trucks wetted the surface to control any localized wheel dusting. Other roads not surfaced were not being used.

**M-4.1.1 (7) (City)**

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

**Current Status/Comments** – The two old oil well steel casings in the area north of the landfill offices are located in the CC-4 Part 3 buttress grading area. These wells have been uncovered and marked with orange paint. These wells will need to be re-abandoned. The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site should be checked and re-abandoned, if required. None of the wells appear to be leaking oil or gas, nor pose a current hazard. Republic staff has met with DOGGR and are pursuing permits to re-abandon the wells.

**M-4.1.6 / 18 (City)**

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

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

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

*The natural biological processes that generate odors in a landfill through anaerobic decomposition cannot be prevented or avoided. However, the LFGs shall be prevented from escaping to the atmosphere through the use of control measures. These measures include using daily and*

intermediate cover material over deposited wastes, filling any surface cracks with clean dirt as necessary, and extracting LFG through the use of an LFG collection and recovery system and destroying collected gases by combustion.

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

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

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

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

- a. *Sample Probe Installation:* One monitoring probe per 1,000 feet or as identified by South Coast Air Quality Management District (SCAQMD) and/or Local Enforcement Agency (LEA) in the landfill expansion, and one probe per 650 feet or as identified by SCAQMD and/or LEA in the City Inactive landfill along the landfill perimeter, or whichever is more restrictive shall be installed to identify potential areas of subsurface landfill gas (LFG) migration. These probes shall be monitored to ensure that quantities of LFG beyond regulatory standards do not vent offsite through subsurface soils.
- b. *Integrated Landfill Surface Sampling:* The landfill surface shall be monitored to ensure that the average concentration of total organic compounds over the landfill surface does not exceed SCAQMD's standard of 25 ppm.
- c. *Ambient Air Samples:* 24-hour integrated gas samples and required meteorological data shall be taken to assess any impact the landfill is having on the ambient air quality at the landfill perimeter.
- d. *Instantaneous Landfill Surface Monitoring:* Spot checks on the landfill surface shall be made to determine the maximum concentration of total organic compounds measured as methane, measured at any one point on the surface of the landfill does not exceed the SCAQMD's standard of 500 ppm.
- e. *Regular Monitoring and Annual Testing:* LFG concentrations at perimeter probes, gas collection system headers, the landfill surface, and in ambient air downwind of the landfill shall be monitored once per month or less frequently (but no less than quarterly) as required by the SCAQMD. The LFG collection system shall be adjusted and improved based on quarterly monitoring data and annual stack testing results.

#### **Odor/Landfill Gas - 7.06 (County)**

If an odor problem should develop, appropriate control measures shall be implemented. These measures include the application of daily cover material or more frequent 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-January, the monitor drove the Granada Hills neighborhood area from 6:45 to 7:15 a.m. and from 9:15 a.m. to 9:30 a.m., and there were no landfill odors detected. The pavement on Balboa Boulevard at Woodley Avenue had no waste odors. It appeared to have been cleaned. There were slight localized liquids odors coming from the CC-3B sump area, and strong localized gas odors around well 709 near the CC-3B top deck. Strong greenwaste odors were detected offsite at approximately 9:00 a.m. near the City Van Norman mulching facility entrance. The source could not be determined.

In mid-February, the monitor drove the Granada Hills neighborhood areas from 6:50 to 7:20 a.m., and there were no landfill odors detected. The pavement on Balboa Boulevard at Woodley Avenue had no odors detected. A City sanitation packer truck driver drained waste liquids onto the pavement while waiting in line at the scales before 9:00 a.m., causing a localized odor. Republic was notified and washed the area.

In early March, the monitor drove the Granada Hills neighborhood area from 6:45 to 7:30 a.m., and there were no landfill odors detected. Flare 1 had localized odors while an SCS worker was repairing a gas valve.

In late March, the monitor drove the neighborhood and school areas from 6:30 to 7:15 a.m. and at 9:00 to 9:15 a.m., and there were no landfill odors detected. The pavement on Balboa Boulevard at Woodley Avenue was observed and no odors were detected.

Throughout the 1st Quarter, the use of Posi-Shell and Closure Turf to seal fill areas with intermediate cover provided enhanced gas recovery and gas-related odor control.

During the 1st Quarter, the sacrificial liner to the westside drainage channel near the County sage mitigation area was being excavated and replaced. A gas collection horizontal collection system was also being installed under this new liner to reduce and prevent any gas migration to any perimeter probes.

#### **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. Jute netting and straw wattles have performed well during this year's heavy rain events, with only moderate erosion occurring. The only area that had significant erosion from rain events was in the CC-4 Part 3 buttress area due to active grading that was occurring.

#### **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** – Prior to rain in the 1st Quarter, the stockpiled soil slopes adjacent to the office were covered with jute netting. Straw wattles were not installed. The upper deck had drainage to an HDPE pipe draining it to the parking lot drainage ditch. No straw wattles were installed. Dirt slopes of CC-4 Part 1, CC-4 Part 2, areas to the north and CC-3A had straw wattles installed. The Old City South landfill had some HDPE downcomers repaired and new ones installed. Straw wattles were installed on slopes that were graded and unvegetated. The CC-3A slopes above

the CC-3B top deck had straw wattles installed. The CC-4 Part 2 HDPE drainage basin was being cleared of sediment. Concrete drainage channels were constructed below Flare 3 and above the Part 3 buttress construction. The dirt slopes adjacent to the westside inlet channel into the terminal basin were graded and repaired. The slopes below the main access road were graded and covered with jute netting. 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.*

**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-January, the Basin D outlet channel had stormwater go under the HDPE channel liner and uplift the corrugated drainage pipe and concrete channel transition. Basin A had approximately 2 to 4 feet of sediment with standing water at the riser's tower rock. Basin B had no standing water. A minor amount of wet sediment was covering the basin's floor. The terminal basin had a significant amount of sediment with 6 to 7 feet at the gabion wall. The water level was approximately two feet below the riser's top. Windblown litter was floating on the water. The outlet channel had some sediment. The lined drainage channel around CC-4 Part 2 was filled with sediment on the west side and water on the south.

In mid-February, the Basin D drainage channel corrugated pipe that was uplifted was replaced, and the HDPE liner that was blocking water flow was removed. Basin A had a significant amount of sediment, and water was covering approximately one-third of the basin. Water out was minimal. Water was being pumped out of the CC-4 Part 3 buttress temporary basin. Basin B had a minimal amount of wet sediment on the floor of the basin. There were two areas where the adjacent native slopes sloughed into the basin. The terminal basin had water at the top of the risers, and water was being released without the use of the skimmers. Water at the outlet channel appeared to be free of sediment.

In early March, Basin A had a significant amount of sediment, and water was covering the basin. Basin B had a minimal amount of wet sediment on the floor of the basin, approximately one-foot-deep. There were two areas where the adjacent native slopes sloughed into the basin. The terminal basin had a significant amount of sediment. Sediment topped the southern portion of the gabion wall. There was standing water in the eastern portion of the basin. Water was at the outlet riser's top and flowing out. The alluvial groundwater pump system was not working, and alluvial water was observed seeping into the basin from the concrete floor at the basin's inlet.

In late March, Basin A was full of water and had no drainage outlet due to construction activities. Water was being pumped into trucks for site use. Basin B was dry with minimal sediment. There were two areas of slope sloughed soil. The terminal basin had some sediment moved near the entrance of the basin into piles to de-water the sediment. The gabion wall had sediment over the

top center of the wall. The water level was at the top of the risers and flowing out. The outlet channel had no sediment, and the water appeared to be sediment-free. The alluvial groundwater pump system was operating, and alluvial water into the terminal basin was being controlled, but not completely stopped.

#### **M-4.3.1(46) (City)**

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

#### **Surface Water 2.15 (County)**

##### *Surface Water Preventive Maintenance Program*

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

**Current Status/Comments** – A preventative maintenance program with inspection of facility equipment, systems, and storm water management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater should be performed on a monthly basis, with a summary report issued on a quarterly basis. These reports should be available for agency and monitor review. The high-flow spillway for Basin D into the westside drainage has cracks and spalling that should be repaired. The Basin B high-flow outlet spillway was cracked in multiple places. The terminal basin had vegetation growing in the interior concrete sidewalls.

In mid-January, the Basin D outlet channel had stormwater go under the HDPE channel liner and uplift the corrugated drainage pipe and concrete channel transition. Basin A had approximately 2 to 4 feet of sediment with standing water at the riser's tower rock. Basin B had no standing water. A minor amount of wet sediment was covering the basin's floor. The terminal basin had a significant amount of sediment with 6 to 7 feet at the gabion wall. The water level was approximately two feet below the riser's top. Windblown litter was floating on the water. The outlet channel had some sediment. The lined drainage channel around CC-4 Part 2 was filled with sediment on the west side and water on the south.

In mid-February, the Basin D drainage channel corrugated pipe that was uplifted was replaced, and the HDPE liner that was blocking water flow was removed. Basin A had a significant amount of



sediment, and water was covering approximately one-third of the basin. Water out was minimal. Water was being pumped out of the CC-4 Part 3 buttress temporary basin. Basin B had a minimal amount of wet sediment on the floor of the basin. There were two areas where the adjacent native slopes sloughed into the basin. The terminal basin had water at the top of the risers, and water was being released without the use of the skimmers. Water at the outlet channel appeared to be free of sediment.

In early March, Basin A had a significant amount of sediment, and water was covering the basin. Basin B had a minimal amount of wet sediment on the floor of the basin, approximately one-foot-deep. There were two areas where the adjacent native slopes sloughed into the basin. The terminal basin had a significant amount of sediment. Sediment topped the southern portion of the gabion wall. There was standing water in the eastern portion of the basin. Water was at the outlet riser's top and flowing out. The alluvial groundwater pump system was not working, and alluvial water was observed seeping into the basin from the concrete floor at the basin's inlet.

In late March, Basin A was full of water and had no drainage outlet due to construction activities. Water was being pumped into trucks for site use. Basin B was dry with minimal sediment. There were two areas of slope sloughed soil. The terminal basin had some sediment moved near the entrance of the basin into piles to de-water the sediment. The gabion wall had sediment over the top center of the wall. The water level was at the top of the risers and flowing out. The outlet channel had no sediment, and the water appeared to be sediment-free. The alluvial groundwater pump system was operating, and alluvial water into the terminal basin was being controlled, but not completely stopped.

#### **M-4.3.2(50) (City)**

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

**Current Status/Comments** – During the 1st Quarter, the Old City North top deck was using a tank farm of 16 Alder storage tanks for processing recovered leachate, with a double-walled pipeline to the sewer connect at the entrance near San Fernando Road. This system operated with no odor detected at the tank farm or sewer connection.

In late March, tank farm liquids were being treated with hydrogen peroxide.

#### **M-4.4.1(60) (City)**

##### *Venturan Coastal Sage Scrub*

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

**Biota - 4.27 (County)**

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

**Current Status/Comments** – In mid-January, the City Deck B sage mitigation planting was complete. The City Deck C sage mitigation was doing well and was being maintained.

In mid-February, the City Deck B sage mitigation existing native plants and planted plants were doing well with the wet and cool weather. The Deck C sage mitigation was doing well. The PM-10 oak trees were recovering from the extreme summer heat.

In early March, the City Deck B sage mitigation had some erosion from the rain events. The planted plants and seed were growing with the cool and wet weather. The existing sage community was growing and looked healthy. The City Deck C sage mitigation was growing well. A minor amount of non-native plants were observed.

In late March, the City Deck B sage mitigation was being maintained, and plants and seeded groundcover growing. The existing native community was growing. The City Deck C sage mitigation was doing well. Minor areas that needed mustard removal were observed.

**M-4.4.3/72 (City)**

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

**Biota - 4.10 (County)**

*The permittee shall comply with all terms and Conditions of Oak Tree Permit No. 86-312-(5). The permittee is authorized to remove oak trees within the project areas as necessary to conduct landfill operations authorized by this grant and subject to the requirements of Part VII of the Implementation and Monitoring Program attached to Oak Tree Permit 86-312-(5). Prior to approving any excavation of more than five acres containing significant stands of oak and/or Douglas fir trees, the Director of Public Works shall confer with the Los Angeles County Forester and Fire Warden.*

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

**M-4.4.2/69 (City)**

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

**Current Status/Comments** – In the 1st Quarter, the environmental review was completed and submitted to the City. The City is proceeding with an ordinance for the mitigation at the Chatsworth Reservoir. The Corps of Engineers is drafting an extension letter.

**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 website.*

**Current Status/Comments** – There was an abandoned car under the I-14 freeway on Sierra Highway.

**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 1st Quarter of 2019, the south oil field gate and north perimeter gate were 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 1st Quarter of 2019, a paleontologist was monitoring grading activities in and adjacent to Cell CC-4 Part 3 buttress construction when grading occurred in native, undisturbed areas.

## Summary of Requested Documents

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

- a) Current Fill Sequence Plan.
- b) A plan showing areas that are inactive for 180 days or longer, with records tracking fill areas and interim reclamation and revegetation, including the timing of proposed work, as well as a plan showing current and projected areas to be within ten feet of the limits of fill.
- c) Maps showing areas that are at final elevation, and bench ditches that will connect to drainage ditches to protect against natural surface runoff.
- d) The current erosion control plans.
- e) Site drainage plans, including surface and underdrain systems, with complementing revegetation plans.
- f) A plan/ report of the liner interceptor ditches design/ installation to ensure that surface runoff is appropriately conveyed to the existing flood control channel directly east of the project site entrance.
- g) Comprehensive geotechnical reports.
- h) A preventative maintenance plan and summary of monitoring reports of inspections of facility equipment, systems and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater.

## Conclusions

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

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

The 2018 Fourth 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  
(01-01-2019 through 03-31-2019)

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

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

Sunshine Canyon Landfill City Mitigation Monitoring Summary  
(01-01-2019 through 03-31-2019)

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2018																First Quarter 2019															
					10/23/2018	Status*	Further Review Needed/Comments**	Resolved*	11/6/2018	Status*	Further Review Needed/Comments**	Resolved*	11/20/2018	Status*	Further Review Needed/Comments**	Resolved*	12/13/2018	Status*	Further Review Needed/Comments**	Resolved*	1/22/2018	Status*	Further Review Needed/Comments**	Resolved*	2/21/2019	Status*	Further Review Needed/Comments**	Resolved*	3/5/2019	Status*	Further Review Needed/Comments**	Resolved*	3/28/2019	Status*	Further Review Needed/Comments**	Resolved*
26	T - 4		Fire Plan	status	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
27	T - 5.j.		Trip Diversion	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
28	T - 6		Satisfactory Street Lighting	status	/				/				/				/				/				/				/				/			
29																																				
30	M - 4.1.1	7	Reabandonment Procedures	status	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
31	M - 4.1.4	11	Post-5.0 Earthquake Analysis	upon event	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
32	M - 4.2.12	27	Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
33	M - 4.2.12		Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
34	M - 4.2.12	28	Site Erosion-Cover	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	FRN	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
35	M - 4.2.12		Site Erosion-Cell Height	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
36	M - 4.2.12		Site Erosion-Sealant	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
37	M - 4.2.13	29	LFG Control Measures	ongoing	/		I-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-c		/		I-d	
38	M - 4.2.13	30	Operational Odor Control Techniques	ongoing	/		I-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-c		/		I-d	
39	M - 4.2.13	31	Solid Waste Compaction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
40	M - 4.2.13	32	LFG Collection and Recovery System	ongoing	/		I-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-c		/		I-d	
41	M - 4.2.13	33	Odor Control Measures	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
42	M - 4.2.13	34	Odor/LFG Monitoring	ongoing	/		I-o		/		I-p		/		I-q		✓	FRN	I-r		/		I-a		/		I-b		/		I-c		✓	FRN	I-d	
43			Periodic LFG Monitoring		/		I-o		/		I-p		/		I-q		/		I-r		/		I-a		/		I-b		/		I-c		/		I-d	
44	M - 4.3.2	52	LFG Migration Mitigation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
45	M - 4.3.2	57	Dust Control Water	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
46	M - 4.4.2	69	Offsite Mitigation Sites	status	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
47	M - 4.4.2	70	Purchasing Wetland Credit	status	/				/				/				/				/				/				/				/			
48	M - 4.4.2	71	Funding-Invasive Species Eradication Program	status	/				/				/				/				/				/				/				/			
49	M - 4.6	85	Site Lighting	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
50	M - 4.7.1	86	Open Space Buffer Area	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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51	M - 4.9.3	106	Litter Minimization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
52	M - 4.9.3	107	Litter/Debris Containment	ongoing	✓	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	
54	M - 4.9.3	109	Periodic Offsite Litter Pickup	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
55	M - 4.9.3	110	Illegal Dumping Activities	ongoing					✓	FRN	I-p		✓	FRN	I-q						✓	C	NONE		✓	C	NONE		✓	FRN	I-c	
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	
57	M - 4.9.3	112	Litter Control	ongoing	✓	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	
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	
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	
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	
64																																
82	Civil & Geotechnical Engineer																															
83																																
84																																
85	M - 4.1.1	2	Grading Outside of Conceptual Grading Plan Area	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
86	M - 4.1.1	3	Unsuitable Material Removal/Buffer Zones	ongoing																												
87	M - 4.1.1	4	Grading Outside of Landfill Footprint	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
88	M - 4.1.1	5	Grading Activity Compliance	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c	
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	

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93	M - 4.1.5	12	Geologic Hazards - Liquefaction	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
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	
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	
98	M - 4.1.6	17	Final Slope Factors of Safety	ongoing																																
99	M - 4.1.6	18	Survey Monuments	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
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	
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	
106	M - 4.18	178	Landfill Elevation Exceedance	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
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	
112	M - 4.3.1	36	Surface Water Infiltration Minimization	ongoing																																
113	M - 4.3.1	37	Surface Drainage Systems	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
114	M - 4.3.1	38	Permanent/Temporary Ditches	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
115	M - 4.3.1	39	Drainage Protection	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
116	M - 4.3.1	40	SWRCB Permit Coverage	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
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-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	

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120	M - 4.3.1	44	Final Landfill Cover	ongoing																																
121	M - 4.3.1	45	Erosion Control Plan	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
122	M - 4.3.1	46	Preventive Maintenance Program	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
123	M - 4.3.2	49	Interception of Groundwater Seepage	ongoing																																
124	M - 4.3.2	50	LCRS/Leachate Monitoring	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
125	M - 4.3.2	51	LCRS Monitoring	ongoing																																
126																																				

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127	Biologist																																			
128																																				
129																																				
130	M - 4.1.1	6	Slope Erosion Control	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
131	M - 4.2.11	23	Revegetation/Excavation	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
132	M - 4.2.12		Temporary Vegetation Cover	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
133	M - 4.4.1	60	Coastal Sage Scrub Mitigation Plan	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
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	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
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	
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	
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	
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	
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	
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	
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	
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	
151	M - 4.4.3	81	Irrigation System	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
152	M - 4.4.3	82	Annual Tree Monitoring Report	annual	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	

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Sunshine Canyon Landfill City Mitigation Monitoring Summary  
(01-01-2019 through 03-31-2019)

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2018																First Quarter 2019															
					10/23/2018	Status*	Further Review Needed/Comments**	Resolved*	11/6/2018	Status*	Further Review Needed/Comments**	Resolved*	11/20/2018	Status*	Further Review Needed/Comments**	Resolved*	12/13/2018	Status*	Further Review Needed/Comments**	Resolved*	1/22/2018	Status*	Further Review Needed/Comments**	Resolved*	2/21/2019	Status*	Further Review Needed/Comments**	Resolved*	3/5/2019	Status*	Further Review Needed/Comments**	Resolved*	3/28/2019	Status*	Further Review Needed/Comments**	Resolved*
153	M - 4.9.2	96	Vector Activity Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE					
154	M - 4.9.2	97	Vector Elimination	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE					
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					
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					
159	M - 4.9.2	102	Storage of Vector-Attracting Items	ongoing																																
160	M - 4.9.2	103	Salvaged Material Storage-Vector Control	ongoing																																
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					
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					
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					
171	M - 4.2.11	22	Grading-Dust Reduction	ongoing	✓	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					
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					
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																																

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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	/			/				/				/				/			/			/			/							
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-o	✓	FRN	I-p	✓	FRN	I-q	✓	FRN	I-r	✓	FRN	I-a	✓	FRN	I-b	✓	FRN	I-c	✓	FRN	I-d	✓	FRN	I-e					
200	M - 4.9.4	123	Personal Protective Equipment	ongoing																																
201	M - 4.9.4	125	Site Access/Fencing	ongoing	✓	C	I-o	✓	C	I-p	✓	C	I-q	✓	C	I-r	✓	C	I-a	✓	C	I-b	✓	C	I-c	✓	C	I-d	✓	C	I-e					
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																																				

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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		
209	M - 4.19.1	184	Onsite Archaeologist	ongoing	✓	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		
211	M - 4.19.1	186	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		
212																																	
213	Paleontologist																																
214																																	
215																																	
216	M - 4.19.2	187	Paleontological Resources Resurvey	ongoing	/	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		
218	M - 4.19.2	189	Paleontological Resources Training	ongoing	✓	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-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		

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

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

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

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(01-01-2019 through 03-31-2019)**

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

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[illegible]

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160	Surface Water - 2.05		Underdrain Placement	ongoing																																
161	Surface Water - 2.07		Drainage Control System Design Approval	ongoing																																
162	Surface Water - 2.08		Surface Water Runoff-Drainage System	ongoing																																
163	Surface Water - 2.10		Surface Water Collection System-Monitoring	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
164	Surface Water - 2.11		Surface Water Quality-Collection/Monitoring	ongoing																																
165	Surface Water - 2.12		Permanent/Temporary Drainage Facilities	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
166	Surface Water - 2.13		Permanent/Temporary Drainage Facilities	ongoing																																
167	Surface Water - 2.14		Erosion Control Plan	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
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-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
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-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
181	Geology - 1.14		Personnel Retention for Monitoring Soil Erosion	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
182	Groundwater - 3.11		Irrigation/Revegetation Management- Personnel Retention	ongoing																																
183	BIOTA – 4.10		Oak Tree Permit	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
184	BIOTA – 4.11		Oak Tree Mitigation Plan	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
185	BIOTA – 4.13		Oak Tree Mitigation Counting	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
186	BIOTA – 4.20		Poultry Wire Screen	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
187	BIOTA – 4.24		Drip Irrigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
188	BIOTA – 4.27		Coastal Sage Scrub Mitigation Plan	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	FRN	I-a		✓	FRN	I-b		✓	FRN	I-c		✓	FRN	I-d	
189	BIOTA – 4.28		Coastal Sage Scrub Seeding	ongoing																																

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

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219	Fugitive Dust - 45.F	45.F	Fugitive Dust Monitoring	ongoing	✓	FRN	I-o		✓	FRN	I-p		✓	FRN	I-q		✓	FRN	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
220	Fugitive Dust - 45.I	45.I	Paved Roads-Cleaning	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
221	Fugitive Dust - 45.N	45.N	Report Submission-Dust/Odor	every quarter																																
222	Air Quality Monitoring - 81	81	Air Quality Monitoring-Tests	ongoing																																
223																																				
224																																				
225	Air Quality – 6.01		Fugitive Dust Aversion	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
226	Air Quality – 6.01		Working Face Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
227	Air Quality – 6.01		Erosion Control-Daily Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
228	Air Quality – 6.01		Soil Stockpile Requirements	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
229	Air Quality – 6.01		Active Area Fill	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
230	Air Quality – 6.01		Soil Sealant	ongoing																																
231	Air Quality – 6.01		Dust Emissions-Road Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
232	Air Quality – 6.01		Access Roads-Paving	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
233	Air Quality – 6.01		Dust Generation-Dumping	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
234	Air Quality – 6.01		Water Tanks/Piping Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
235	Air Quality – 6.01		Wind Speed Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
236	Air Quality – 6.01		Report Submission-Dust/Odor	every quarter	/				/				/				/				/				/				/				/			
237	Odor/Landfill Gas – 7.03		Odor/Landfill Gas Monitoring Program	ongoing	/				/				/				/				/				/				/				/			
238	Odor/Landfill Gas – 7.03		Landfill Surface Sampling	ongoing	/				/				/				/				/				/				/				/			
239	Odor/Landfill Gas – 7.03		Landfill Perimeter Air Samples	ongoing	/				/				/				/				/				/				/				/			
240	Odor/Landfill Gas – 7.03		Landfill Surface Monitoring	ongoing	/				/				/				/				/				/				/				/			
241	Odor/Landfill Gas – 7.03		LFG Collection System Monitoring	ongoing	/				/				/				/				/				/				/				/			
242	Noise – 9.01		Landfill Access/Operation	info	/				/				/				/				/				/				/				/			
243	Noise – 9.03		Landfill Equipment-Mufflers/Silencers	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
244	Admin Rpts/ Pgms-17.16		Air Quality Monitoring-Corrective Action Plan	ongoing	/				/				/				/				/				/				/				/			
246																																				

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# Sunshine Canyon Landfill County Mitigation Monitoring Summary

## (01-01-2019 through 03-31-2019)

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2018																First Quarter 2019															
					10/23/2018	Status*	Further Review Needed/Comments**	Resolved*	11/6/2018	Status*	Further Review Needed/Comments**	Resolved*	11/20/2018	Status*	Further Review Needed/Comments**	Resolved*	12/13/2018	Status*	Further Review Needed/Comments**	Resolved*	1/22/2019	Status*	Further Review Needed/Comments**	Resolved*	2/21/2019	Status*	Further Review Needed/Comments**	Resolved*	3/5/2019	Status*	Further Review Needed/Comments**	Resolved*	3/28/2019	Status*	Further Review Needed/Comments**	Resolved*
247	Hydrology, Hazardous Waste / Risk of Upset																																			
248																																				
249																																				
250	IMP - Part IV.E	IMP4	Load Inspection-Random Manual	ngoing																																
251																																				
252	Groundwater - 3.05		Leachate Collection and Removal System	ngoing																																
253	Groundwater - 3.15		Underground Diesel Fuel Storage Tanks	ngoing	/	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	ngoing	✓	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	ngoing	✓	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	ngoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
257	Fire Service - 12.05		Building Limits	ngoing	✓	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	ngoing	✓	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	ngoing																																
260	Hazardous Materials – 13.05		Hazardous Waste Disposal	ngoing																																
261	Hazardous Materials – 13.10		Hazardous Waste-Procedures	ngoing																																
262	Hazardous Materials – 13.11		Spill Response Program	ngoing																																
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	ngoing																																
268	Safety - 16.10		Lockout/Blackout Procedures	status																																
269	Safety - 16.11		Personal Protective Equipment	status																																
270	Landfill Operation - 18.8		Prohibited Waste Procedures	ngoing																																
271																																				

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# Sunshine Canyon Landfill County Mitigation Monitoring Summary (01-01-2019 through 03-31-2019)

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Fourth Quarter 2018																First Quarter 2019															
					10/23/2018	Status*	Further Review Needed/Comments**	Resolved*	11/6/2018	Status*	Further Review Needed/Comments**	Resolved*	11/20/2018	Status*	Further Review Needed/Comments**	Resolved*	12/13/2018	Status*	Further Review Needed/Comments**	Resolved*	1/22/2019	Status*	Further Review Needed/Comments**	Resolved*	2/21/2019	Status*	Further Review Needed/Comments**	Resolved*	3/5/2019	Status*	Further Review Needed/Comments**	Resolved*	3/28/2019	Status*	Further Review Needed/Comments**	Resolved*
272	Archaeologist																																			
273																																				
274																																				
275	Ecological Significance - 62	62	Archaeological/Paleontological Identification/Conservation Program	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
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-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
280	Archaeological – 5.04		Archaeological/Paleontological Identification Instruction	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
281	Archaeological – 5.05		Archaeological Resource Curation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
282																																				
283	Paleontologist																																			
284																																				
285																																				
286	Ecological Significance - 62	62	Archaeological/Paleontological -Material Identification/Conservation	ongoing	✓	C	I-o		✓	C	I-p		✓	C	I-q		✓	C	I-r		✓	C	I-a		✓	C	I-b		✓	C	I-c		✓	C	I-d	
287	IMP - Part VII.B	IMP7	Archaeological/Paleontological-Report Submission	ongoing																																

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## **Appendix I**

### **Further Review Needed Comments: Reference I-a through I-d First Quarter 2019 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-a through I-d: The CC-4 Part 3 buttress grading and construction was occurring during the 1st Quarter of 2019. This grading and buttress construction is the only grading being done outside of the prior-approved landfill footprint.</p> <p>I-a: A slight movement of the slide in the CC-4 Part 3 buttress area occurred in January, and all grading was stopped and a remediation plan was designed and implemented. Once movement was stopped, the buttress had additional movement detection monitors installed, and grading and construction continued.</p> <p>I-b: The CC-4 Part 3 buttress grading and construction continued. There were no impacts from the heavy rain events that needed repair.</p> <p>I-c: The recent rain events caused significant erosion in the buttress' northern area, and filled the temporary basin. Repairs were underway.</p> <p>I-d: The CC-4 Part 3 buttress had grading and soil placement occurring. A paleontologist was on site monitoring grading in native areas. The buttress construction was about 95% complete.</p>
		Geology - 1.07	County DPW EPD/SCL-LEA	I-a through I-d: See Q – B.2.c above.
		Geology - 1.12	County DPW EPD/SCL-LEA	I-a through I-d: See Q – B.2.c above.
	Q - C.3.h		City Planning	I-a through I-d: In the 1st Quarter of 2019, the site made operation changes from that in the 4th Quarter of 2018. Untreated dirt roads were not being used. Access roads were surfaced with recycled aggregate and wetted by water trucks. The number of water trucks in use was increased. Road-generated dust was not a concern.
	Q - C.10.c		City Planning	<p>I-a: The gas-to-energy plant was using 9058 SCFM of recovered landfill gas, 46% CH<sub>4</sub>, 1.6% O<sub>2</sub>, 85 ppm H<sub>2</sub>S. Flare 1: 1978 SCFM; Flare 3: shut down; Flare 9: 3391 SCFM; Flare 10: shut down; Flare 11: 3351 SCFM. The total volume of landfill gas being recovered was 17,778 SCFM.</p> <p>I-b: The gas-to-energy plant was using 7855 SCFM of recovered landfill gas, 43% CH<sub>4</sub>, 1.2% O<sub>2</sub>, 80 ppm H<sub>2</sub>S. Flare 1: 2152 SCFM; Flare 3: shut down; Flare 9: 2928 SCFM; Flare 10: 3000 SCFM; Flare 11: 3014 SCFM. The total volume of landfill gas being recovered was 18,949 SCFM.</p> <p>I-c: The gas-to-energy plant was using 5542 SCFM of recovered landfill gas, 47% CH<sub>4</sub>, 1.7% O<sub>2</sub>, 80 ppm H<sub>2</sub>S. Flare 1: 2290 SCFM; Flare 3: shut down; Flare 9: 2928 SCFM; Flare 10: 2989 SCFM; Flare 11: 2935 SCFM. The total volume of landfill gas being recovered was 16,600 SCFM.</p> <p>I-d: The gas-to-energy plant was using 8006 SCFM of recovered landfill gas, 45% CH<sub>4</sub>, 1.0% O<sub>2</sub>, 100 ppm H<sub>2</sub>S. Flare 1: 2149 SCFM; Flare 3: shut down; Flare 9: 2789 SCFM; Flare 10: 2784 SCFM; Flare 11: 2665 SCFM. The total volume of landfill gas being recovered was 18,393 SCFM.</p> <p>I-a through I-d: The quantity of landfill gas being recovered during the 1st Quarter has averaged 17,930 SCFM, with the gas-to-energy plant usage averaging 7615 SCFM. An expansion of the gas-to-energy plant or different beneficial use facility should be evaluated.</p>
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-a through I-d: 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-a through I-d: See Q - C.10.c above.
	T-4		City Planning, City Fire Department	I-a through I-d: An updated fire plan showing the new locations of all facilities and emergency egress should be prepared and sent to the local City fire department station and City and County planning when construction of the new operation's facilities currently under construction have been completed. Emergency egress should be posted for employees and customers. It is recommended that the local City fire department station personnel should visit the site and be given the latest facility plot plan showing access roads and facilities.
		Fire Service - 12.03	County DPW EPD/SCL-LEA County Forester Fire Warden	I-a through I-d: See T-4 above.
	M - 4.1.1 / 7		City Planning, DOGGR	I-a through I-d: The two old oil well steel casings in the area north of the landfill offices are located in the CC-4 Part 3 buttress grading area. These wells have been uncovered and marked with orange paint. These wells will need to be re-abandoned. The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site should be checked and reabandoned, if required. None of the wells appear to be leaking oils or gas, nor pose a current hazard. Republic staff has met with DOGGR and are pursuing permits to re-abandon the wells.
		Re-abandonment Procedures	County Planning, County DPW EPD/SCL-LEA, DOGGR	I-a through I-d: See M - 4.1.1 / 7 above.
	M - 4.2.12 / 26 and 28		City Planning/SCAQMD	I-a through I-d: During the 1st Quarter, Closure Turf was functioning well and being maintained. Gas and liquids recovery systems from under the Closure Turf were performing well. The Posi-Shell areas were being maintained, but being reduced in area covered. Some of these areas were replaced with Closure Turf. These cover materials were in lieu of vegetation and controlled and eliminated dust and erosion. In November 2018, numerous areas of the inactive site and completed buttress slopes were hydroseeded. The perimeter landfill road was improved using recycled concrete and asphalt. Dust was not being generated by use of this road. The main access road was surfaced with recycled aggregate. Two water trucks wetted the surface to control any localized wheel dusting. Other roads not surfaced were not being used.
		Fugitive Dust - 45.F	County DPH/County LEA County DPW-EPD County Biologist	I-a through I-d: See M - 4.2.12 / 28 above.
	M -4.2.13/ 29, 30, 32, 34		City Planning/SCL-LEA/SCAQMD	I-a through I-d: Compliance with these mitigation measures, concerning landfill gas monitoring and odor control and detection, is being monitored by a multi-agency team led by the SCAQMD. Only obvious gas emission sources, odorous operations related to gas and/or gas and landfill liquids, lack of cover, or exposed trash resulting in odor observed during the monitoring visit are reported.
		Amendment 45.N-4.a, 4.c, 4.d	County DPW-EPD	I-a through I-d: See M -4.2.13/ 29, 30, 32, 34 above.
		Amendment 45.N-5	County DPW-EPD	I-a through I-d: 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-a: The monitor drove the Granada Hills neighborhood area from 6:45 to 7:15 a.m. and from 9:15 a.m. to 9:30 a.m., and there were no landfill odors detected. The pavement on Balboa Boulevard at Woodley Avenue had no waste odors. It appeared to have been cleaned. There were slight localized liquids odors coming from the CC-3B sump area, and strong localized gas odors around well 709 near the CC-3B top deck. Strong greenwaste odors were detected offsite at approximately 9:00 a.m. near the City Van Norman mulching facility entrance. The source could not be determined.</p> <p>I-b: The monitor drove the Granada Hills neighborhood areas from 6:50 to 7:20 a.m., and there were no landfill odors detected. The pavement on Balboa Boulevard at Woodley Avenue had no odors detected. A City sanitation packer truck driver drained waste liquids onto the pavement while waiting in line at the scales before 9:00 a.m., causing a localized odor. Republic was notified and washed the area.</p> <p>I-c: The monitor drove the Granada Hills neighborhood area from 6:45 to 7:30 a.m., and there were no landfill odors detected. Flare 1 had localized odors while an SCS worker was repairing a gas valve.</p> <p>I-d: The monitor drove the neighborhood and school areas from 6:30 to 7:15 a.m. and at 9:00 to 9:15 a.m., and there were no landfill odors detected. The pavement on Balboa Boulevard at Woodley Avenue was observed and no odors were detected.</p> <p>I-a through I-d: The use of Posi-Shell and Closure Turf to seal fill areas with intermediate cover provided enhanced gas recovery and gas-related odor control.</p>
	M - 4.2.13 / 34		City Planning/SCAQMD	I-a through I-d: The sacrificial liner replacement to the westside drainage channel near the County sage mitigation area was completed. A gas horizontal collection system was installed to reduce and prevent any gas migration to any perimeter probes.
		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-a through I-d: See M-4.2.13/33 and 34 above.
		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-a through I-d: See M-4.2.13/29, 30, 32, 33, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-a through I-d: See M-4.2.13/29, 30, 32, 33, and 34 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager		Surface Water - 2.15	County DPW EPD/ LARWQCB, SCL- LEA	<p>I-a through I-d: A preventative maintenance program with inspection of facility equipment, systems, and storm water management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater should be performed on a monthly basis, with a summary report issued on a quarterly basis. These reports should be available for agency and monitor review. The high-flow spillway for Basin D into the westside drainage has cracks and spalling that should be repaired. The Basin B high-flow outlet spillway was cracked in multiple places. The terminal basin had vegetation growing in the interior concrete sidewalls.</p> <p>I-a: Basin D outlet channel had stormwater go under the HDPE channel liner and uplift the corrugated drainage pipe and concrete channel transition. Basin A had approximately 2-4 feet of sediment with standing water at the riser's tower rock. Basin B had no standing water. A minor amount of wet sediment was covering the basin's floor. The terminal basin had a significant amount of sediment with 6-7 feet at the gabion wall. The water level was approximately two feet below the riser's top. Windblown litter was floating on the water. The outlet channel had some sediment. The lined drainage channel around CC-4 Part 2 was filled with sediment on the west side and water on the south.</p> <p>I-b: Basin D drainage channel corrugated pipe that was uplifted was replaced and the HDPE liner that was blocking water flow removed. Basin A had a significant amount of sediment, and water was covering approximately one-third of the basin. Water out was minimal. Water was being pumped out of the CC-4 Part 3 buttress temporary basin. Basin B had a minimal amount of wet sediment on the floor of the basin. There were two areas where the adjacent native slopes sloughed into the basin. The terminal basin had water at the top of the risers, and water was being released without the use of the skimmer. Water at the outlet channel appeared to be free of sediment.</p>
				<p>I-c: Basin A had a significant amount of sediment, and water was covering the basin. Basin B had a minimal amount of wet sediment on the floor of the basin, approximately one foot deep. There were two areas where the adjacent native slopes sloughed into the basin. The terminal basin had a significant amount of sediment. Sediment topped the southern portion of the gabion wall. There was standing water in the eastern portion of the basin. Water was at the outlet riser's top and flowing out. The alluvial groundwater pump system was not working, and alluvial water was observed seeping into the basin from the concrete floor at the basin's inlet.</p> <p>I-d: Basin A was full of water and had no drainage outlet due to construction activities. Water was being pumped into trucks for use. Basin B was dry with minimal sediment. There were two areas of slope sloughed soil. The terminal basin had some sediment moved near the entrance of the basin into piles to de-water the sediment. The gabion wall had sediment over the top center of the wall. The water level was at the top of the risers and flowing out. The outlet channel had no sediment, and the water appeared to be sediment-free. The alluvial groundwater pump system was operating, and alluvial water into the terminal basin was being controlled, but not completely stopped.</p>
	M - 4.4.2/ 69		City Planning	I-a through I-d: The environmental review was completed and submitted to the City. The City is proceeding with a ordinance for the mitigation at the Chatsworth Reservoir. The Corps of Engineers is drafting an <u>extension letter</u> .
		Biota - 4.4.3	CDFW	I-a through I-d: See M - 4.4.2 / 69 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Project Manager</b>	M - 4.9.3 / 110		City Planning/City LEA	I-c: There was an abandoned car under the I-14 freeway on Sierra Highway.
<b>Civil and Geotechnical Engineer</b>	M - 4.1.1 / 2		City Building and Safety City Planning	I-a through I-d: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 4		City Planning/LARWQCB Cal Recycle	I-a through I-d: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-a through I-d: Out-of-approved landfill footprint grading occurred for a Cell CC-4 Part 3 buttress. Grading plans have been approved by the County Department of Public Works' Civil Engineering and Permitting sections. The only other grading occurring in this quarter was for maintaining areas of Cell CC-4 Part 1 and 2, and the removal of stockpiled soil for waste cover from soil in Cell CC-3A, and from the buttress stockpile area and grading of Cell CC-3A western slopes. These activities are inside the approved landfill footprint.  I-d: The CC-4 Part 3 buttress was approximately 95% complete.
		Geology - 1.07	County DPW EPD/ County LEA	I-a through I-d: See M - 4.1.1 / 5 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-a through I-d: See M - 4.1.1 / 5 above.
	M - 4.1.6 / 18			I-a through I-d: The landfill perimeter boundary survey PVC marker pipes have been removed in areas where Edison pole grading took place, near the Flare 11 site pad grading and near the CC-4 Part 3 buttress. These boundary markers have not been replaced. All markers should be replaced once the Cell CC-4 Part 3 buttress is completed.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADBS City LEA	I-a through I-d: Access roads were being maintained around the working area for emergency access.
	M - 4.18 / 178		City Planning/City LEA	I-a through I-d: 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-a through I-d: See M - 4.18 / 178 above.
<b>Hydrologist</b>	M - 4.3.1/ 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-a and I-d: Surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas, and most conveyance V-ditches were unlined. Jute netting and straw wattles have performed well during this year's heavy rain events, with only moderate erosion occurring. The only area that had significant erosion from rain events was in the CC-4 Part 3 buttress area due to active grading that was occurring.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Hydrologist		Surface Water - 2.03 Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-a through I-d: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-a through I-d: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-a through I-d: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 43		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	<p>I-a: Basin D outlet channel had stormwater go under the HDPE channel liner and uplift the corrugated drainage pipe and concrete channel transition. Basin A had approximately 2-4 feet of sediment with standing water at the riser's tower rock. Basin B had no standing water. A minor amount of wet sediment was covering the basin's floor. The terminal basin had a significant amount of sediment with 6-7 feet at the gabion wall. The water level was approximately two feet below the riser's top. Windblown litter was floating on the water. The outlet channel had some sediment. The lined drainage channel around CC-4 Part 2 was filled with sediment on the west side and water on the south.</p> <p>I-b: Basin D drainage channel corrugated pipe that was uplifted was replaced and the HDPE liner that was blocking water flow removed. Basin A had a significant amount of sediment, and water was covering approximately one-third of the basin. Water out was minimal. Water was being pumped out of the CC-4 Part 3 buttress temporary basin. Basin B had a minimal amount of wet sediment on the floor of the basin. There were two areas where the adjacent native slopes sloughed into the basin. The terminal basin had water at the top of the risers, and water was being released without the use of the skimmer. Water at the outlet channel appeared to be free of sediment.</p> <p>I-c: Basin A had a significant amount of sediment, and water was covering the basin. Basin B had a minimal amount of wet sediment on the floor of the basin, approximately one-foot-deep. There were two areas where the adjacent native slopes sloughed into the basin. The terminal basin had a significant amount of sediment. Sediment topped the southern portion of the gabion wall. There was standing water in the eastern portion of the basin. Water was at the outlet riser's top and flowing out. The alluvial groundwater pump system was not working, and alluvial water was observed seeping into the basin from the concrete floor at the basin's inlet.</p> <p>I-d: Basin A was full of water and had no drainage outlet due to construction activities. Water was being pumped into trucks for use. Basin B was dry with minimal sediment. There were two areas of slope sloughed soil. The terminal basin had some sediment moved near the entrance of the basin into piles to de-water the sediment. The gabion wall had sediment over the top center of the area of the wall. The water level was at the top of the risers and flowing out. The outlet channel had no sediment, and the water appeared to be sediment-free. The alluvial groundwater pump system was operating, and alluvial water into the terminal basin was being controlled, but no completely stopped.</p>
		Surface Water - 2.10	LARWQCB / County DPW EPD	I-a through I-d: See M - 4.3.1/ 37, 38 and 43 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Hydrologist</b>		Surface Water - 2.14	LARWQCB / County DPW EPD	I-a through I-d: See M - 4.3.1 / 37, 38 and 43 above. The current erosion control plans should be available for agency and monitor review.
	M - 4.3.1/ 46		City Planning/ LARWQCB CalRecycle PW-BOE	I-a through I-d: See 2.15 above.
	M - 4.3.2 / 50		City Planning/ LARWQCB CalRecycle SCL-LEA	I-a through I-d: The Old City North top deck has a tank farm of 16 Alder storage tanks for processing recovered leachate, with a double-walled pipeline to the sewer connect at the entrance near San Fernando Road. This system operated with no odor detected at the tank farm or sewer connection.  I-d: Tank farm liquids were being treated with hydrogen peroxide.
<b>Biologist</b>	M - 4.1.1 / 6		City Planning/ LARWQCB CalRecycle SCL-LEA LADBS	I-a through I-d: See M - 4.2.12 / 28 above.
		Geology - 1.14	LARWQCB/ County Forester	I-a through I-d: See M - 4.2.12 / 28 above.
	M - 4.2.11 / 23		City Planning	I-a through I-d: See M - 4.2.12 / 28 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-a through I-d: See M - 4.2.12 / 28 above.
	M - 4.2.12		SCL-LEA/ City Planning	I-a through I-d: See M - 4.2.12 / 28 above.
		Revegetation - 44.A	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-a through I-d: See M - 4.2.12 / 28 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-a through I-d: See M - 4.2.12 / 28 above.
		Biota - 4.42	SCL-LEA	I-a through I-d: See M - 4.2.12 / 28 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-a through I-d: See M - 4.2.12 / 28 above.

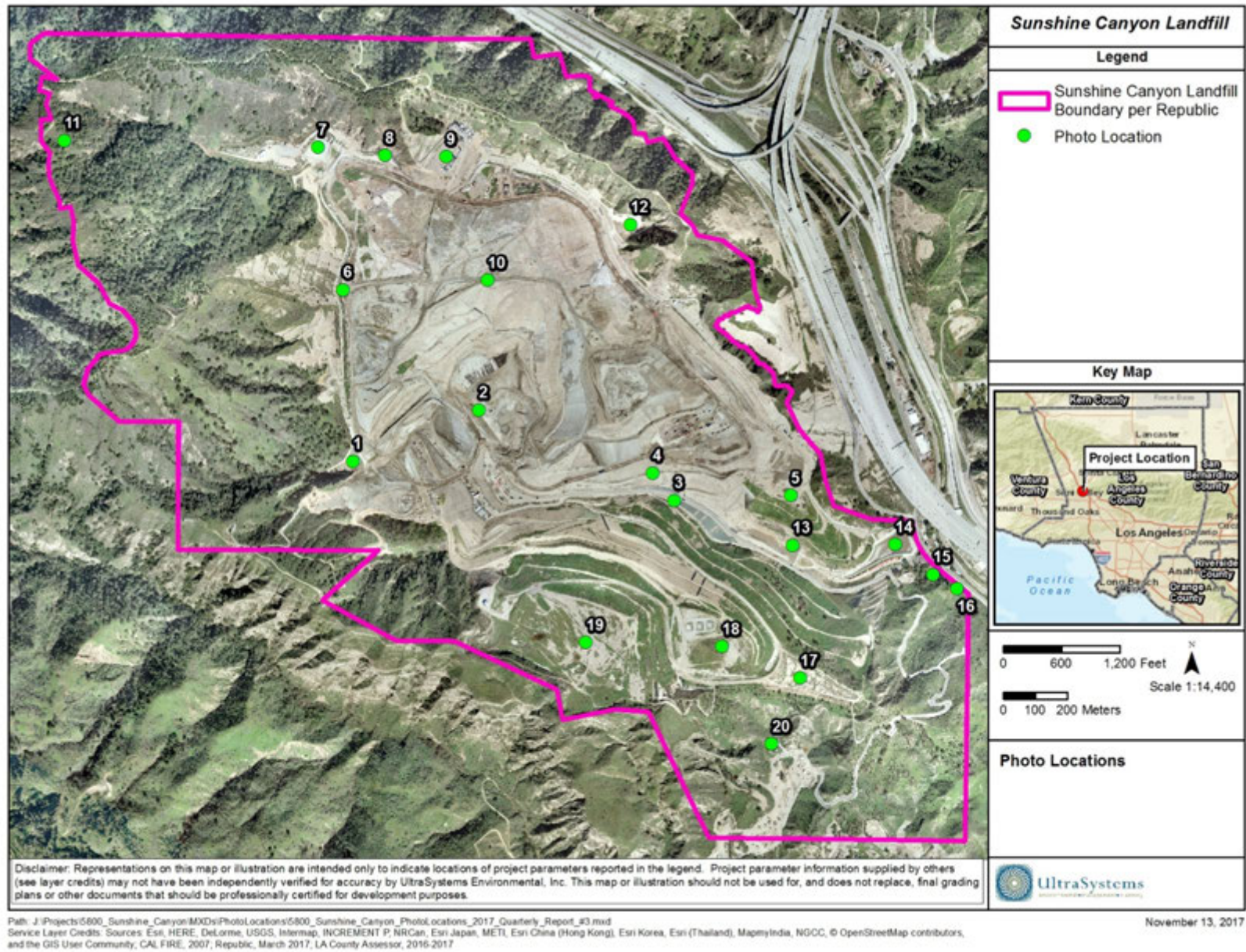


Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Biologist</b>		Visual - 10.08	County Forester	I-a through I-d: See M - 4.2.12 / 28 above.
	M - 4.4.1 / 60		City Planning	<p>I-a: The City Deck B sage mitigation planting was complete. City Deck C sage mitigation was doing well and was being maintained.</p> <p>I-b: The City Deck B sage mitigation existing native plants and planted plants were doing well with the wet and cool weather. Deck C sage mitigation was doing well. The PM-10 oak trees were recovering from the extreme summer heat.</p> <p>I-c: The City Deck B sage mitigation had some erosion from the rain events. The planted plants and seed were growing with the cool and wet weather. The existing sage community was growing and looked healthy. City Deck C sage mitigation was growing well. A minor amount of non-native plants were observed.</p> <p>I-d: The City Deck B sage mitigation was being maintained, and plants and seeded groundcover growing. Existing native community was growing. City Deck C sage mitigation was doing well. Minor areas that needed mustard removal were observed.</p>
		Biota - 4.27	County LEA/CDFW	I-a through I-d: See M - 4.4.1 / 60 above.
		Biota - 4.10	County LEA/CDFW	I-a through I-d: An updated mitigation tree report was completed, showing the number and type of mitigation trees required to be planted. A schedule for planting had not been prepared.
	M - 4.4.3 / 72		City Planning	I-a through I-d: See Biota - 4.10 above.
	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-a through I-d: See T-4 above.
	M-4.9.4/ 125		City Planning/ CalRecycle Cal OSHA SCL-LEA	I-a through I-d: Throughout the 1st Quarter of 2019, the south oil field gate and north perimeter gate were observed to be locked.
<b>Paleontologist</b>	M-4.19.2/ 191		City Planning	I-a through I-d: The paleontologist was monitoring grading activities in and adjacent to Cell CC-4 Part 3 buttress when grading occurred in native, undisturbed areas.
		Ecological Significance 62	County Planning	I-a through I-d: See M-4.19.2/ 191 above.

## Appendix II

### Relevant Site Photos

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## Photo Location Map Key

Map Location	Title	Photo Number
1	Basin A	1 – 20
2	Working Areas, CC4 Part 1 and 2, CC4 Part 3 and Buttress Area	21 – 113
3	Closure Turf and Posi-Shell	114 – 145
4	CC-3A and CC-3B	146 – 159
5	Old City North and South	160 – 160
6	County Sage Mitigation and Westside Drainage Channel	161 – 165
7 & 8	Basin D, Basin D Outlet Channel	166 – 174
9	Flares 9, 10, 11 and Gas-to-Energy Facility	175 – 184
10	County Top Deck	185 – 245
11	Big Cone Fir Mitigation	–
12	Basin B	246 – 269
13	Eastside Drainage Channel and Terminal Basin Inlets	270 – 286
14	Terminal Basin	287 – 330
15	Sewer Lift Station and Graywater Facility	–
16	Retaining Wall at San Fernando Road	331 – 350
17, 18 & 19	City Decks A, B and C Sage Mitigation Areas	351 – 378
20	Southern Ownership Buffer	–
–	General Site	379 – 419





**Photo 1: Basin A: January 22, 2019**



**Photo 2: Basin A: January 22, 2019**



**Photo 3: Basin A: January 22, 2019**



**Photo 4: Basin A: January 22, 2019**



**Photo 5: Basin A: February 21, 2019**



**Photo 6: Basin A: February 21, 2019**



**Photo 7: Basin A: February 21, 2019**



**Photo 8: Basin A: February 21, 2019**





**Photo 9: Basin A: February 21, 2019**



**Photo 10: Basin A: February 21, 2019**



**Photo 11: Basin A: February 21, 2019**



**Photo 12: Basin A: March 5, 2019**



**Photo 13: Basin A: March 5, 2019**



**Photo 14: Basin A: March 5, 2019**



**Photo 15: Basin A: March 5, 2019**



**Photo 16: Basin A: March 5, 2019**





**Photo 17: Basin A: March 5, 2019**



**Photo 18: Basin A: March 28, 2019**



**Photo 19: Basin A: March 28, 2019**



**Photo 20: Basin A: March 28, 2019**



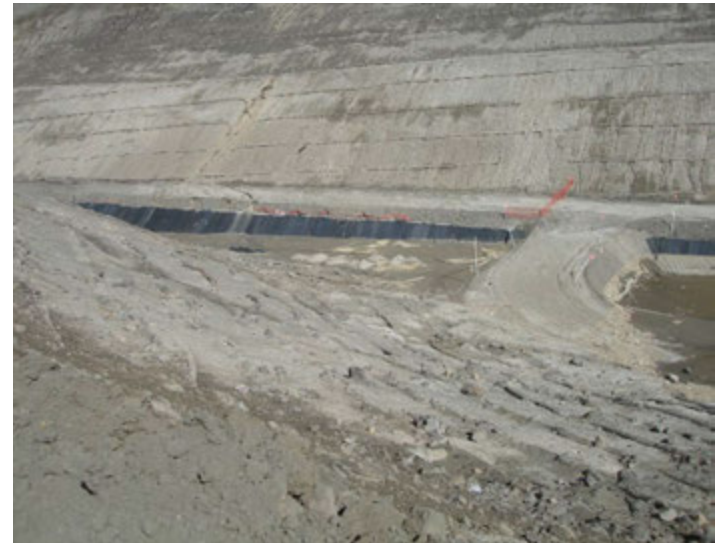
**Photo 21: CC4 Parts 1 & 2: January 22, 2019**



**Photo 22: CC4 Parts 1 & 2: January 22, 2019**



**Photo 23: CC4 Parts 1 & 2: January 22, 2019**



**Photo 24: CC4 Parts 1 & 2: January 22, 2019**





**Photo 25: CC4 Parts 1 & 2: January 22, 2019**



**Photo 26: CC4 Parts 1 & 2: January 22, 2019**



**Photo 27: CC4 Parts 1 & 2: January 22, 2019**



**Photo 28: CC4 Parts 1 & 2: January 22, 2019**



**Photo 29: CC4 Parts 1 & 2: January 22, 2019**



**Photo 30: CC4 Parts 1 & 2: January 22, 2019**



**Photo 31: CC4 Parts 1 & 2: January 22, 2019**



**Photo 32: CC4 Part 3 Buttress Construction Area: January 22, 2019**





**Photo 33: CC4 Part 3 Buttress Construction Area: January 22, 2019**



**Photo 34: CC4 Part 3 Buttress Construction Area: January 22, 2019**



**Photo 35: CC4 Part 3 Buttress Construction Area: January 22, 2019**



**Photo 36: CC4 Part 3 Buttress Construction Area: January 22, 2019**





**Photo 37: CC4 Part 3 Buttress Construction Area: January 22, 2019**



**Photo 38: CC4 Part 3 Buttress Construction Area: January 22, 2019**



**Photo 39: CC4 Part 3 Buttress Construction Area: January 22, 2019**



**Photo 40: CC4 Part 3 Buttress Construction Area: January 22, 2019**



**Photo 41: CC4 Part 3 Buttress Construction Area: January 22, 2019**



**Photo 42: CC4 Part 3 Buttress Construction Area: January 22, 2019**



**Photo 43: CC4 Part 3 Buttress Construction Area: January 22, 2019**



**Photo 44: CC4 Parts 1 & 2: February 21, 2019**





**Photo 45: CC4 Parts 1 & 2: February 21, 2019**



**Photo 46: CC4 Parts 1 & 2: February 21, 2019**



**Photo 47: CC4 Parts 1 & 2: February 21, 2019**



**Photo 48: CC4 Parts 1 & 2: February 21, 2019**



**Photo 49: CC4 Parts 1 & 2: February 21, 2019**



**Photo 50: CC4 Parts 1 & 2: February 21, 2019**



**Photo 51: CC4 Parts 1 & 2: February 21, 2019**



**Photo 52: CC4 Parts 1 & 2: February 21, 2019**





**Photo 53: CC4 Parts 1 & 2: February 21, 2019**



**Photo 54: CC4 Part 3 Buttress Construction Area: February 21, 2019**



**Photo 55: CC4 Part 3 Buttress Construction Area: February 21, 2019**



**Photo 56: CC4 Part 3 Buttress Construction Area: February 21, 2019**



**Photo 57: CC4 Part 3 Buttress Construction Area: February 21, 2019**



**Photo 58: CC4 Parts 1 & 2: March 5, 2019**



**Photo 59: CC4 Parts 1 & 2: March 5, 2019**



**Photo 60: CC4 Parts 1 & 2: March 5, 2019**





**Photo 61: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 62: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 63: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 64: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 65: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 66: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 67: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 68: CC4 Part 3 Buttress Construction Area: March 5, 2019**





**Photo 69: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 70: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 71: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 72: CC4 Part 3 Buttress Construction Area: March 5, 2019**





**Photo 73: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 74: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 75: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 76: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 77: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 78: CC4 Part 3 Buttress Construction Area: March 5, 2019**



**Photo 79: CC4 Parts 1 & 2: March 28, 2019**



**Photo 80: CC4 Parts 1 & 2: March 28, 2019**





**Photo 81: CC4 Parts 1 & 2: March 28, 2019**



**Photo 82: CC4 Part 3 Buttruss Construction Area: March 28, 2019**



**Photo 83: CC4 Part 3 Buttruss Construction Area: March 28, 2019**



**Photo 84: Site Working Area CC4 Part 1 & 2: January 22, 2019**



**Photo 85: Site Working Area CC4 Part 1 & 2: January 22, 2019**



**Photo 86: Site Working Area CC4 Part 1 & 2: January 22, 2019**



**Photo 87: Site Working Area CC4 Part 1 & 2: January 22, 2019**



**Photo 88: Site Working Area CC4 Part 1 & 2: January 22, 2019**





**Photo 89: Site Working Area CC4 Part 1 & 2: January 22, 2019**



**Photo 90: Site Working Area CC4 Part 1 & 2: January 22, 2019**



**Photo 91: Site Working Area CC4 Part 1 & 2: January 22, 2019**



**Photo 92: Site Working Area CC4 Part 1 & 2: January 22, 2019**



**Photo 93: Site Working Area CC4 Part 1 & 2: January 22, 2019**



**Photo 94: Site Working Area CC4 Part 1 & 2: January 22, 2019**



**Photo 95: Site Working Area CC4 Part 1 & 2: February 21, 2019**



**Photo 96: Site Working Area CC4 Part 1 & 2: February 21, 2019**





**Photo 97: Site Working Area CC4 Part 1 & 2: February 21, 2019**



**Photo 98: Site Working Area CC4 Part 1 & 2: February 21, 2019**



**Photo 99: Site Working Area CC4 Part 1 & 2: February 21, 2019**



**Photo 100: Site Working Area CC4 Part 1 & 2: February 21, 2019**





**Photo 101: Site Working Area CC4 Part 1 & 2: February 21, 2019**



**Photo 102: Site Working Area CC4 Part 1 & 2: February 21, 2019**



**Photo 103: Site Working Area CC4 Part 1 & 2: March 5, 2019**



**Photo 104: Site Working Area CC4 Part 1 & 2: March 5, 2019**



**Photo 105: Site Working Area CC4 Part 1 & 2: March 5, 2019**



**Photo 106: Site Working Area CC4 Part 1 & 2: March 5, 2019**



**Photo 107: Site Working Area CC4 Part 1 & 2: March 28, 2019**



**Photo 108: Site Working Area CC4 Part 1 & 2: March 28, 2019**





**Photo 109: Site Working Area CC4 Part 1 & 2: March 28, 2019**



**Photo 110: Site Working Area CC4 Part 1 & 2: March 28, 2019**



**Photo 111: Site Working Area CC4 Part 1 & 2: March 28, 2019**



**Photo 112: Site Working Area CC4 Part 1 & 2: March 28, 2019**



**Photo 113: Site Working Area CC4 Part 1 & 2: March 28, 2019**



**Photo 114: Posi-Shell and Closure Turf: January 22, 2019**



**Photo 115: Posi-Shell and Closure Turf: January 22, 2019**



**Photo 116: Posi-Shell and Closure Turf: January 22, 2019**





**Photo 117: Posi-Shell and Closure Turf: January 22, 2019**



**Photo 118: Posi-Shell and Closure Turf: January 22, 2019**



**Photo 119: Posi-Shell and Closure Turf: January 22, 2019**



**Photo 120: Posi-Shell and Closure Turf: January 22, 2019**



**Photo 121: Closure Turf: February 21, 2019**



**Photo 122: Closure Turf: February 21, 2019**



**Photo 123: Closure Turf: February 21, 2019**



**Photo 124: Closure Turf: February 21, 2019**





**Photo 125: Closure Turf: February 21, 2019**



**Photo 126: Closure Turf: February 21, 2019**



**Photo 127: Closure Turf: February 21, 2019**



**Photo 128: Closure Turf: February 21, 2019**





**Photo 129: Closure Turf: February 21, 2019**



**Photo 130: Closure Turf: February 21, 2019**



**Photo 131: Closure Turf: March 5, 2019**



**Photo 132: Closure Turf: March 5, 2019**



**Photo 133: Closure Turf: March 5, 2019**



**Photo 134: Closure Turf: March 5, 2019**



**Photo 135: Closure Turf: March 5, 2019**



**Photo 136: Closure Turf: March 5, 2019**





**Photo 137: Closure Turf: March 5, 2019**



**Photo 138: Closure Turf: March 5, 2019**



**Photo 139: Closure Turf: March 5, 2019**



**Photo 140: Closure Turf: March 28, 2019**



**Photo 141: Closure Turf: March 28, 2019**



**Photo 142: Closure Turf: March 28, 2019**



**Photo 143: Closure Turf: March 28, 2019**



**Photo 144: Closure Turf: March 28, 2019**





**Photo 145: Closure Turf: March 28, 2019**



**Photo 146: CC-3A Slopes: March 5, 2019**



**Photo 147: CC-3A Slopes: March 5, 2019**



**Photo 148: CC-3A Slopes: March 5, 2019**



**Photo 149: CC-3A Slopes: March 5, 2019**



**Photo 150: CC-3A Slopes: March 5, 2019**



**Photo 151: CC-3A Slopes: March 5, 2019**



**Photo 152: CC-3A Slopes: March 5, 2019**





**Photo 153: CC-3A Slopes: March 5, 2019**



**Photo 154: CC-3A Slopes: March 5, 2019**



**Photo 155: CC-3B Top Deck: March 5, 2019**



**Photo 156: CC-3B South Slopes: March 28, 2019**



**Photo 157: CC-3B South Slopes: March 28, 2019**



**Photo 158: CC-3B South Slopes: March 28, 2019**



**Photo 159: CC-3B South Slopes: March 28, 2019**



**Photo 160: Old City North Top Deck: March 28, 2019**





**Photo 161: County Sage Mitigation Area: March 28, 2019**



**Photo 162: County Sage Mitigation Area: March 28, 2019**



**Photo 163: County Sage Mitigation Area: March 28, 2019**



**Photo 164: County Sage Mitigation Area: March 28, 2019**



**Photo 165: County Sage Mitigation Area: March 28, 2019**



**Photo 166: Basin D Outlet Channel: January 22, 2019**



**Photo 167: Basin D Outlet Channel: January 22, 2019**



**Photo 168: Basin D Outlet Channel: January 22, 2019**





**Photo 169: Basin D Outlet Channel: January 22, 2019**



**Photo 170: Basin D Outlet Channel: January 22, 2019**



**Photo 171: Posi-Shell and Closure Turf: January 22, 2019**



**Photo 172: Basin D Outlet Channel: February 21, 2019**



**Photo 173: Basin D Outlet Channel: February 21, 2019**



**Photo 174: Basin D Outlet Channel: February 21, 2019**



**Photo 175: Waste Material on Old Flares 8 Site: February 21, 2019**



**Photo 176: Waste Material on Old Flares 8 Site: February 21, 2019**





**Photo 177: Waste Material on Old Flare 8 Site: March 5, 2019**



**Photo 178: Waste Material on Old Flare 8 Site: March 5, 2019**



**Photo 179: Waste Material on Old Flare 8 Site: March 5, 2019**



**Photo 180: Waste Material on Old Flare 8 Site: March 5, 2019**



**Photo 181: Waste Material on Old Flare 8 Site: March 5, 2019**



**Photo 182: Waste Material on Old Flare 8 Site: March 5, 2019**



**Photo 183: County Flare Road Plugged Drainage: March 28, 2019**



**Photo 184: County Flare Road Plugged Drainage: March 28, 2019**





**Photo 185: County Top Deck Stockpile Area: January 22, 2019**



**Photo 186: County Top Deck Stockpile Area: January 22, 2019**



**Photo 187: County Top Deck Stockpile Area: January 22, 2019**



**Photo 188: County Bowl Area: February 21, 2019**





**Photo 189: County Bowl Area: February 21, 2019**



**Photo 190: County Bowl Area: February 21, 2019**



**Photo 191: County Bowl Area: February 21, 2019**



**Photo 192: County Bowl Area: February 21, 2019**



**Photo 193: County Bowl Area: February 21, 2019**



**Photo 194: County Bowl Area: February 21, 2019**



**Photo 195: County Bowl Area: February 21, 2019**



**Photo 196: County Bowl Area: February 21, 2019**





**Photo 197: County Bowl Area: February 21, 2019**



**Photo 198: County Bowl Area: February 21, 2019**



**Photo 199: County Top Deck: February 21, 2019**



**Photo 200: County Top Deck: February 21, 2019**





**Photo 201: County Top Deck: February 21, 2019**



**Photo 202: County Top Deck: February 21, 2019**



**Photo 203: County Top Deck: February 21, 2019**



**Photo 204: County Top Deck: February 21, 2019**



**Photo 205: County Top Deck: February 21, 2019**



**Photo 206: County Top Deck: February 21, 2019**



**Photo 207: County Top Deck: February 21, 2019**



**Photo 208: County Top Deck: February 21, 2019**





**Photo 209: County Top Deck: February 21, 2019**



**Photo 210: County Top Deck: February 21, 2019**



**Photo 211: County Top Deck: February 21, 2019**



**Photo 212: County Bowl Area: March 5, 2019**





**Photo 213: County Bowl Area: March 5, 2019**



**Photo 214: County Bowl Area: March 5, 2019**



**Photo 215: County Bowl Area: March 5, 2019**



**Photo 216: County Bowl Area: March 5, 2019**



**Photo 217: County Bowl Area: March 5, 2019**



**Photo 218: County Bowl Area: March 5, 2019**



**Photo 219: County Bowl Area: March 5, 2019**



**Photo 220: County Bowl Area: March 5, 2019**





**Photo 221: County Bowl Area: March 5, 2019**



**Photo 222: County Bowl Area: March 5, 2019**



**Photo 223: County Bowl Area: March 5, 2019**



**Photo 224: County Bowl Area: March 5, 2019**





**Photo 225: County Bowl Area: March 5, 2019**



**Photo 226: County Bowl Area: March 5, 2019**



**Photo 227: County Bowl Area: March 5, 2019**



**Photo 228: County Bowl Area: March 5, 2019**



**Photo 229: County Bowl Area: March 5, 2019**



**Photo 230: County Bowl Area: March 5, 2019**



**Photo 231: County Bowl Area: March 28, 2019**



**Photo 232: County Bowl Area: March 28, 2019**





**Photo 233: County Bowl Area: March 28, 2019**



**Photo 234: County Bowl Area: March 28, 2019**



**Photo 235: County Bowl Area: March 28, 2019**



**Photo 236: County Bowl Area: March 28, 2019**





**Photo 237: CC3B Top Deck: March 28, 2019**



**Photo 238: CC3B Top Deck: March 28, 2019**



**Photo 239: CC3B Top Deck: March 28, 2019**



**Photo 240: CC3B Top Deck: March 28, 2019**



**Photo 241: CC3B Top Deck: March 28, 2019**



**Photo 242: CC3B Top Deck: March 28, 2019**



**Photo 243: CC3B Top Deck: March 28, 2019**



**Photo 244: CC3B Top Deck: March 28, 2019**





**Photo 245: CC3B Top Deck: March 28, 2019**



**Photo 246: Basin B: January 22, 2019**



**Photo 247: Basin B: January 22, 2019**



**Photo 248: Basin B: January 22, 2019**





**Photo 249: Basin B: January 22, 2019**



**Photo 250: Basin B: January 22, 2019**



**Photo 251: Basin B: January 22, 2019**



**Photo 252: Basin B: January 22, 2019**



**Photo 253: Basin B: February 21, 2019**



**Photo 254: Basin B: February 21, 2019**



**Photo 255: Basin B: February 21, 2019**



**Photo 256: Basin B: February 21, 2019**





**Photo 257: Basin B: February 21, 2019**



**Photo 258: Basin B: February 21, 2019**



**Photo 259: Basin B: February 21, 2019**



**Photo 260: Basin B: March 5, 2019**





**Photo 261: Basin B: March 5, 2019**



**Photo 262: Basin B: March 5, 2019**



**Photo 263: Basin B: March 5, 2019**



**Photo 264: Basin B: March 5, 2019**



**Photo 265: Basin B: March 28, 2019**



**Photo 266: Basin B: March 28, 2019**



**Photo 267: Basin B: March 28, 2019**



**Photo 268: Basin B: March 28, 2019**





**Photo 269: Basin B: March 28, 2019**



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



**Photo 271: Terminal Basin Westside Drainage Channel Inlet:  
January 22, 2019**



**Photo 272: Terminal Basin Westside Drainage Channel Inlet:  
January 22, 2019**





**Photo 273: Terminal Basin Westside Drainage Channel Inlet:  
February 21, 2019**



**Photo 274: Terminal Basin Westside Drainage Channel Inlet:  
February 21, 2019**



**Photo 275: Terminal Basin Westside Drainage Channel Inlet:  
February 21, 2019**



**Photo 276: Terminal Basin Westside Drainage Channel Inlet:  
February 21, 2019**



**Photo 277: Terminal Basin Westside Drainage Channel Inlet:  
March 5, 2019**



**Photo 278: Terminal Basin Westside Drainage Channel Inlet:  
March 5, 2019**



**Photo 279: Terminal Basin Westside Drainage Channel Inlet:  
March 5, 2019**



**Photo 280: Terminal Basin Westside Drainage Channel Inlet:  
March 5, 2019**





**Photo 281: Terminal Basin Westside Drainage Channel Inlet:  
March 5, 2019**



**Photo 282: Eastside Drainage Channel: March 28, 2019**



**Photo 283: Eastside Drainage Channel: March 28, 2019**



**Photo 284: Eastside Drainage Channel: March 28, 2019**





**Photo 285: Eastside Drainage Channel: March 28, 2019**



**Photo 286: Terminal Basin Westside Drainage Channel Inlet:  
March 28, 2019**



**Photo 287: Terminal Basin: January 22, 2019**



**Photo 288: Terminal Basin: January 22, 2019**



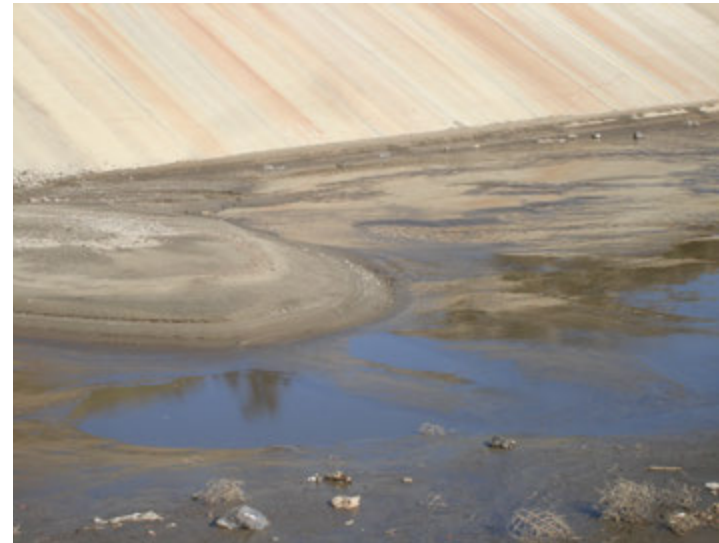
**Photo 289: Terminal Basin: January 22, 2019**



**Photo 290: Terminal Basin: January 22, 2019**



**Photo 291: Terminal Basin: January 21, 2019**



**Photo 292: Terminal Basin: January 21, 2019**





**Photo 293: Terminal Basin: January 21, 2019**



**Photo 294: Terminal Basin: January 21, 2019**



**Photo 295: Terminal Basin: January 21, 2019**



**Photo 296: Terminal Basin: January 21, 2019**





**Photo 297: Terminal Basin: January 21, 2019**



**Photo 299: Terminal Basin: February 22, 2019**



**Photo 298: Terminal Basin Outlet: January 21, 2019**



**Photo 300: Terminal Basin: February 22, 2019**



**Photo 301: Terminal Basin: February 22, 2019**



**Photo 302: Terminal Basin: February 22, 2019**



**Photo 303: Terminal Basin: February 22, 2019**



**Photo 304: Terminal Basin: February 22, 2019**





**Photo 305: Terminal Basin: February 22, 2019**



**Photo 306: Terminal Basin Outlet: February 22, 2019**



**Photo 307: Terminal Basin: March 5, 2019**



**Photo 308: Terminal Basin: March 5, 2019**





**Photo 309: Terminal Basin: March 5, 2019**



**Photo 310: Terminal Basin: March 5, 2019**



**Photo 311: Terminal Basin: March 5, 2019**



**Photo 312: Terminal Basin: March 5, 2019**



**Photo 313: Terminal Basin: March 5, 2019**



**Photo 314: Terminal Basin: March 5, 2019**



**Photo 315: Terminal Basin: March 5, 2019**



**Photo 316: Terminal Basin Area Alluvial Pumps Not Running:  
March 28, 2019**





**Photo 317: Terminal Basin Area Alluvial Pumps Not Running:  
March 28, 2019**



**Photo 318: Terminal Basin Area Alluvial Pumps Not Running:  
March 28, 2019**



**Photo 319: Terminal Basin: March 28, 2019**



**Photo 320: Terminal Basin: March 28, 2019**





**Photo 321: Terminal Basin: March 28, 2019**



**Photo 322: Terminal Basin: March 28, 2019**



**Photo 323: Terminal Basin: March 28, 2019**



**Photo 324: Terminal Basin: March 28, 2019**



**Photo 325: Terminal Basin: March 28, 2019**



**Photo 326: Terminal Basin: March 28, 2019**



**Photo 327: Terminal Basin: March 28, 2019**



**Photo 328: Terminal Basin: March 28, 2019**





**Photo 329: Terminal Basin: March 28, 2019**



**Photo 330: Terminal Basin Outlet: March 28, 2019**



**Photo 331: San Fernando Road Retaining Wall Slope: January 22, 2019**



**Photo 332: San Fernando Road Retaining Wall Slope: January 22, 2019**





**Photo 333: San Fernando Road Retaining Wall: January 22, 2019**



**Photo 334: San Fernando Road Retaining Wall: January 22, 2019**



**Photo 335: San Fernando Road Retaining Wall: January 22, 2019**



**Photo 336: San Fernando Road Retaining Wall Slope: February 21, 2019**





**Photo 337: San Fernando Road Retaining Wall Slope: February 21, 2019**



**Photo 338: San Fernando Road Retaining Wall Slope: February 21, 2019**



**Photo 339: San Fernando Road Retaining Wall Slope: February 21, 2019**



**Photo 340: San Fernando Road Retaining Wall Slope: February 21, 2019**





**Photo 341: San Fernando Road Retaining Wall Slope: February 21, 2019**



**Photo 342: San Fernando Road Retaining Wall Slope: February 21, 2019**



**Photo 343: San Fernando Road Retaining Wall Slope: March 5, 2019**



**Photo 344: San Fernando Road Retaining Wall Slope: March 5, 2019**





**Photo 345: San Fernando Road Retaining Wall Slope: March 5, 2019**



**Photo 346: San Fernando Road Retaining Wall Slope: March 5, 2019**



**Photo 347: San Fernando Road Retaining Wall Slope: March 5, 2019**



**Photo 348: San Fernando Road Retaining Wall Slope: March 5, 2019**





**Photo 349: San Fernando Road Retaining Wall Slope: March 5, 2019**



**Photo 350: San Fernando Road Retaining Wall Slope: March 5, 2019**



**Photo 351: Deck C Sage Mitigation Area: February 21, 2019**



**Photo 352: Deck C Sage Mitigation Area: February 21, 2019**



**Photo 353: Deck C Sage Mitigation Area: February 21, 2019**



**Photo 354: Deck C Sage Mitigation Area: February 21, 2019**



**Photo 355: Deck C Sage Mitigation Area: February 21, 2019**



**Photo 356: Deck C Sage Mitigation Area: February 21, 2019**





**Photo 357: Deck C Sage Mitigation Area: February 21, 2019**



**Photo 358: Deck C Sage Mitigation Area: February 21, 2019**



**Photo 359: Deck B Sage Mitigation Area: February 21, 2019**



**Photo 360: Deck B Sage Mitigation Area: February 21, 2019**



**Photo 361: Deck B Sage Mitigation Area: February 21, 2019**



**Photo 362: Deck B Sage Mitigation Area: February 21, 2019**



**Photo 363: Deck B Sage Mitigation Area: February 21, 2019**



**Photo 364: Deck B Sage Mitigation Area: February 21, 2019**





**Photo 365: Deck B Sage Mitigation Area: March 5, 2019**



**Photo 366: Deck B Sage Mitigation Area: March 5, 2019**



**Photo 367: Deck B Sage Mitigation Area: March 5, 2019**



**Photo 368: Deck B Sage Mitigation Area: March 5, 2019**





**Photo 369: Deck B Sage Mitigation Area: March 5, 2019**



**Photo 370: Deck B Sage Mitigation Area: March 5, 2019**



**Photo 371: Deck B Sage Mitigation Area: March 5, 2019**



**Photo 372: Deck B Sage Mitigation Area: March 5, 2019**





**Photo 373: Deck B Sage Mitigation Area: March 5, 2019**



**Photo 374: Deck B Sage Mitigation Area: March 5, 2019**



**Photo 375: Deck B Sage Mitigation Area: March 28, 2019**



**Photo 376: Deck B Sage Mitigation Area: March 28, 2019**



**Photo 377: Deck B Sage Mitigation Area: March 28, 2019**



**Photo 378: Deck B Sage Mitigation Area: March 28, 2019**



**Photo 379: Two Old Dry Hole Oil Wells: January 22, 2019**



**Photo 380: Main Access Road Slopes Near Terminal Basin: January 22, 2019**





**Photo 381: Main Access Road Old City South Slopes Near Terminal Basin: January 22, 2019**



**Photo 382: Staging Purged Liquids on Pavement: February 21, 2019**



**Photo 383: Staging Purged Liquids on Pavement: February 21, 2019**



**Photo 384: Main Access Road Slopes Near Terminal Basin: February 21, 2019**



**Photo 385: Main Access Road Slopes Near Terminal Basin:  
February 21, 2019**



**Photo 386: Site: February 21, 2019**



**Photo 387: Site: February 21, 2019**



**Photo 388: Site: February 21, 2019**





**Photo 389: Site: February 21, 2019**



**Photo 390: Site: February 21, 2019**



**Photo 391: Site: February 21, 2019**



**Photo 392: Site: February 21, 2019**





**Photo 393: Main Access Road Slopes Near Terminal Basin: March 5, 2019**



**Photo 394: Main Access Road Slopes Near Terminal Basin: March 5, 2019**



**Photo 395: Main Access Road Slopes Near Terminal Basin: March 5, 2019**



**Photo 396: Site: March 5, 2019**



**Photo 397: Site: March 5, 2019**



**Photo 398: Site: March 5, 2019**



**Photo 399: Site: March 5, 2019**



**Photo 400: Site: March 5, 2019**





**Photo 401: Site: March 5, 2019**



**Photo 402: Site: March 5, 2019**



**Photo 403: Site: March 5, 2019**



**Photo 404: Site: March 5, 2019**





**Photo 405: Main Access Road Slopes Near Terminal Basin: March 28, 2019**



**Photo 406: Main Access Road Slopes Near Terminal Basin: March 28, 2019**



**Photo 407: Main Access Road Slopes Near Terminal Basin: March 28, 2019**



**Photo 408: Main Access Road Slopes Near Terminal Basin: March 28, 2019**



**Photo 409: Main Access Road Slopes Near Terminal Basin: March 28, 2019**



**Photo 410: Main Access Road Slopes Near Terminal Basin: March 28, 2019**



**Photo 411: South Boundary Gate Locked: March 28, 2019**



**Photo 412: Windblown Litter in Canyon South of Basin A: March 28, 2019**





**Photo 413: Windblown Litter in Canyon South of Basin A: March 28, 2019**



**Photo 414: Site: March 28, 2019**



**Photo 415: Site: March 28, 2019**



**Photo 416: Site: March 28, 2019**





**Photo 417: Site: March 28, 2019**



**Photo 418: Site: March 28, 2019**



**Photo 419: Site: March 28, 2019**

# 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

# January Site Visits

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## January 22, 2019:

James Aidukas (UltraSystems)

Tarik Hadj-Hamou (SLR)

Mike Lindsay (UltraSystems)





**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 1/22/19
Site Conditions: Clear 50-70° F, 0-20 MPH winds	
<b>SITE LOG</b>	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood and school areas from 6:45 to 7:15 a.m. and there were no landfill odors detected. The pavement on Balboa Boulevard at Woodley Avenue was observed and no odors were detected. It appears that this roadway area was cleaned. Met with Mike Lindsay (UltraSystems) and Tarik Hadj-Hamou (SLR) and signed in at the office. We met with Vu Truong (LACDPW) and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• CC-4 Part 1/Part 2 slopes had erosion rills on the west and south facing dirt slopes. The lined drainage channel around Part 2 was filled with sediment on the west side and water on the south. A new HDPE drainage downcomer was installed on the southern side of Part 1.</li> <li>• The closure turf was being maintained and no apparent damage was observed from the rains.</li> <li>• Drove to Blucher Avenue at approximately 9:00 a.m. and strong greenwaste odors were detected near the City Van Norman mulching facility entrance. The source could not be determined.</li> <li>• Drove the adjacent neighborhood from 9:15 to 9:30 and no odors were detected.</li> <li>• San Fernando Road and Sierra Highway were clear of illegal dumping and litter where monitored by Republic.</li> <li>• The San Fernando Road retaining wall had hillside soil sliding onto the drainage ditch and fencing during the last rain. The slope oak tree has substantial root exposure.</li> <li>• The terminal basin had a significant amount of sediment with 6-7 feet at the gabion wall. The water level was approximately two feet below the risers top. Windblown litter was floating in the water. The outlet channel had some sediment.</li> <li>• The slopes below the main access road near the terminal basin had areas that had soil sliding where no wattles were installed. The slopes above the road had soil and vegetation slide.</li> <li>• The concrete channels from the westside drainage into the terminal basin had deep rills in the soil slopes. No wattles were being used.</li> <li>• There were distinct liquids odors coming from the CC-3B liquids sump areas.</li> <li>• The haul road near the CC-3B top deck turn off had a strong odor in a 50 foot diameter area near well 709.</li> <li>• CC-4 Part 1/2 was operating with no concerns.</li> <li>• Basin B had no standing water. A minor amount of wet sediment was covering the basin's floor.</li> <li>• The Basin D outlet channel had water going under the HDPE liner and lifting the corrugated pipe and concrete.</li> </ul>	

Page 2 of 2, 1/22/19:

- Movement in the CC-4 Part 3 buttress was stopped and was being monitored. Water was being directed to a buttress basin.
- Basin A had approximate 2-4 feet of sediment with standing water at the riser's lower rock level.
- City Deck B sage mitigation planting was completed.

**Flare Operating Conditions:**

- Flare 1 - 1701°F, 1978 SCFM, -57.71" vacuum, 38.77" out, 31% CH<sub>4</sub>, 1.2% O<sub>2</sub>, 100 ppm H<sub>2</sub>S
- Flare 3 - shut down
- Flare 9 - 1657°F, 3391 SCFM, -63.00" vacuum, 38.60" out
- Flare 10 - shut down
- Flare 11 - 1657°F, 3351 SCFM

The gas-to-energy plant was using 9,058 SCFM of recovered landfill gas, 46% CH<sub>4</sub>, 1.6% O<sub>2</sub>, 85 ppm H<sub>2</sub>S. Total gas volume recovered was 17,778 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 



### SUNSHINE CANYON LANDFILL

#### MITIGATION MONITORING SITE REPORT

Monitor: Tarek Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 13
Discipline: Civil – Geotechnical and Hydrology	Date: January 22, 2019

Site Conditions: Sunny and warm

#### SITE LOG

7:00 Meet with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill, review of previous visits, discuss potential issues, organize areas and features to inspect.

8:00 Meet with of LA DPW representative, set objectives of the visit

#### 8:30– 1:30 Site inspection

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

#### Access Roads.

- Main access road: some sloughing occurred on the embankment on the Terminal Basin side, just at the edge of the previously repaired area at the limit of the jute netting (Photo 1)

#### Waste Placement in Cell CC4 (Photo 2)

- Phase 2 and 3 are combined and difficult to separate visually
- 3 Tilters were in use

#### Drainage System

- Terminal Basin
  - Additional sediments have accumulated upstream of the separator gabion wall (Photo 3) – But the volume occupied by that sediment should not impact the functionality of the basin.
  - Water was ponding between the gabion wall and the decant towers/skimers about One foot below the top of decant towers (Photo 4)
  - The three skimmers were lowered (Photo 4)
  - Refuse has accumulated behind the decant towers (Photo 5)
  - Water was flowing out of the basin (Photo 6)
- Cell CC3 Earthen basin
  - The basin is clean and available for storage
  - Some erosion gullies have opened on downstream side of the earth embankment but do not pose a stability risk (Photo 7)
- Basin A
  - Basin is partially full of water (Photo 8)
  - Sediments have accumulated at the back, probably due to erosion from the newly excavated slope for the new gas header to Flare 3 – Volume is small and has no impact on the overall storage capacity of the basin (Photo 9)
  - Due to the excavation for cell CC4 Phase 4, the channel out of Basin A has been removed but

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Photo 1: Soil sloughing on slope of embankment of main access road



Photo 2: Waste placement at Cell CC4

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Photo 3: Sediment in Terminal Basin

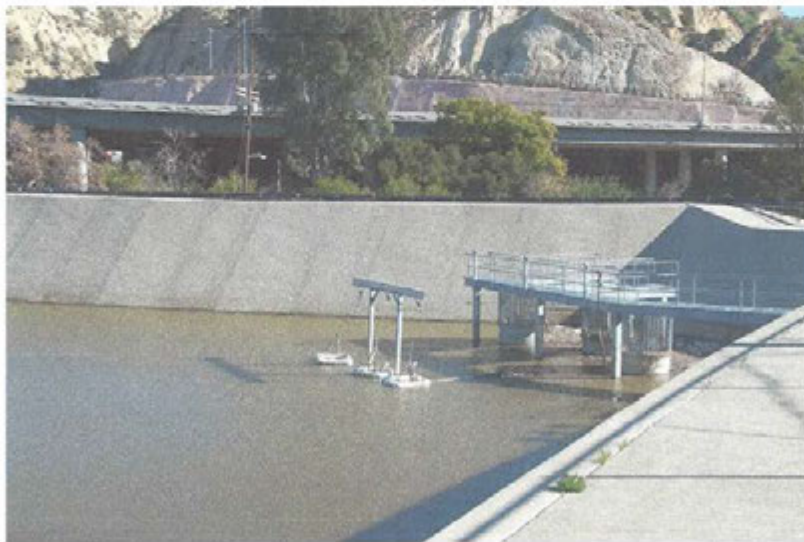


Photo 4: Water accumulation in Terminal Basin with lowered skimmers

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Photo 5: Waste collected behind decant towers at Terminal basin



Photo 6: Water exiting Terminal basin

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Photo 7: Erosion on slope of embankment for basin CC3

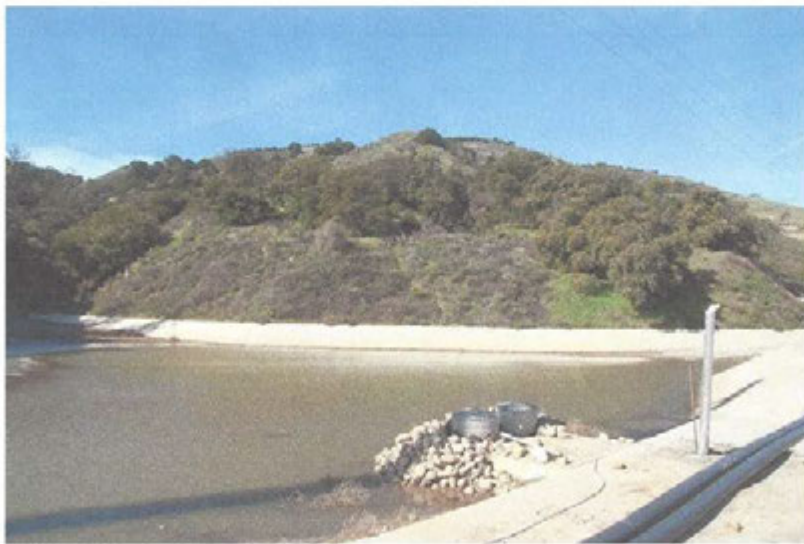


Photo 8: Water in basin A

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Photo 9: Sediments at back of Basin A



Photo 10: Water collected in temporary basin at toe of buttress

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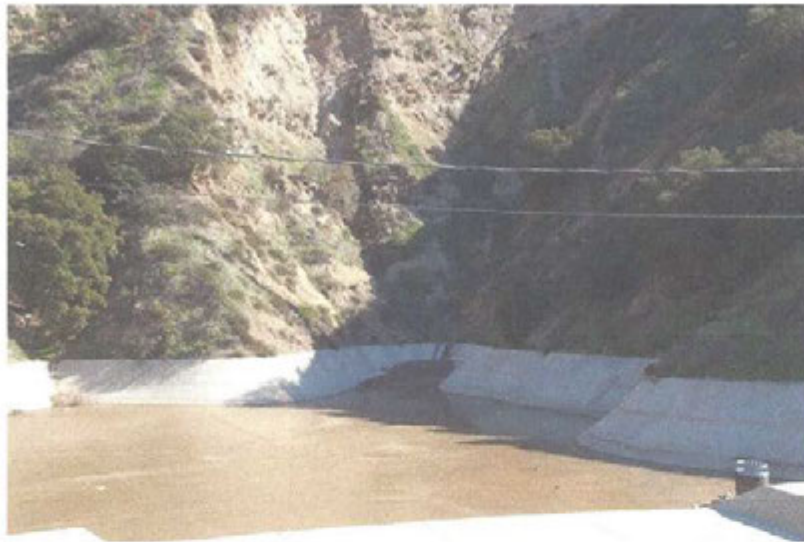


Photo 11: Sediments at back of Basin B



Photo 12: Sloughing on side of Basin B with sediments

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Photo 13: Sediments plugging drain at end of ditch along access road to Flares 9-11



Photo 14: Damage to membrane on first segment of channel west of the access road to Flares 9-11

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Photo 15: Damage to membrane and culvert on second segment of channel west of the access road to Flares 9-11



Figure 16: Pumping water out of the moat around Cell CC4 Phase 3

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Figure 17: CQA monitoring of buttress – Note stakes for new movement monitoring prisms



Figure 18: additional monitoring instrument on slope of excavated area of future buttress

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Figure 19: Deep erosion gully exposing refuse on slope of Cell CC3 Phase 3

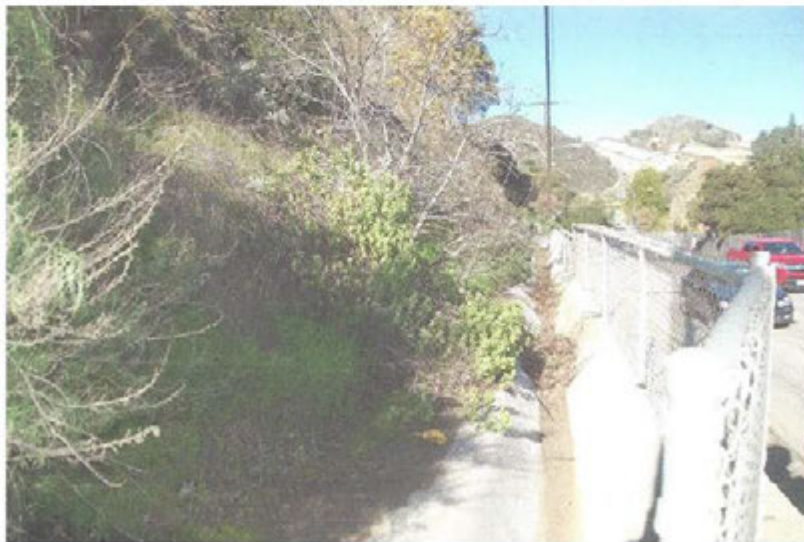


Figure 20: Sediments in drainage swale at wall along San Fernando road

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Figure 21: Exposed roots of tree above wall along San Fernando road

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**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 01-22-2019 Tuesday
Site Conditions: Clear, 49–72 °F, 10–20 mph, 39% 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 Valerie (Republic).</li> <li>2. Met with Vu Truong (LACDPW).</li> <li>3. Strong greenwaste odors are present along Blucher Avenue at 9:00 AM.</li> <li>4. No odors are present at Balboa Boulevard and Woodley Avenue.</li> <li>5. No odors are present at adjacent neighborhood and school.</li> <li>6. Sierra Highway is mostly clear of debris and trash.</li> <li>7. Front retaining wall drainage ditch has been partially filled with soil due to recent rains.</li> <li>8. Terminal basin has 4 to 7 feet of sediment, with water level at 2 feet below top of vertical riser drains.</li> <li>9. Slope below haul road near terminal basin has slumped down onto roadway due to rainwater erosion.</li> <li>10. Distinct leachate odors are present at sediment basin 3B Inlet sump area at 10:20 AM.</li> <li>11. Traffic spotters are onsite to control traffic.</li> <li>12. Strong landfill gas odors are present near well 709 by Cell CC-3B haul road at 10:30 AM.</li> <li>13. Bird abatement is in effect near working areas, including falconry.</li> <li>14. Cell CC-4 Part 1/2 working area is in good order, including tippers, traffic controllers, water misters and water trucks. ADC is 80% covered with new trash at 10:50 AM.</li> <li>15. Street sweepers are cleaning the haul roads.</li> <li>16. A new trench is being excavated from Cell CC-3A west slope into Cell CC-4 Part 1.</li> <li>17. Sediment basin B is in good order, with some slope soil sliding into basin from recent rains.</li> <li>18. Flare 9 is operating at 3312 scfm, 1664 °F. Gas sample measured at 46 % Vol. CH<sub>4</sub>, 1.6 % Vol. O<sub>2</sub>, 85 ppm H<sub>2</sub>S and 145 ppm CO. Gas inlet temperature is at 120 °F.</li> <li>19. Flare 10 is offline.</li> <li>20. Flare 11 is operating at 3363 scfm, 1646 °F. Blowers 1, 2, 3 and 4 are in operation.</li> <li>21. A new set of concrete pipe support footings are being constructed near the north end of sediment basin A.</li> <li>22. Sediment basin D is in good order.</li> <li>23. Sediment basin A has 2 to 4 feet of sediment, with standing water at riser drains due to recent rains.</li> <li>24. Buttress excavation work continues at Cell CC-4 Part 3, with several piezometers monitoring for western slope movement.</li> <li>25. Flare 1 is operating at 1980 scfm, 1703 °F. Gas sample measured at 31 % Vol. CH<sub>4</sub>, 1.2 % Vol. O<sub>2</sub>, 100 ppm H<sub>2</sub>S and 197 ppm CO. Gas inlet temperature is at 95 °F.</li> <li>26. Water trucks are applying water throughout site for dust control.</li> <li>27. City Deck B sage mitigation area has been planted, and includes cactus.</li> <li>28. Met with Chris Coyle, Joshua Mills, Tuong-phu Ngo and Mike DeYoung (Republic), and discussed our site monitoring observations.</li> </ol>	

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**FURTHER REVIEW NEEDED**

1. Remove soil from retaining wall drainage ditch.
2. Repair slope erosion below haul road at terminal basin.
3. Eliminate leachate odors at sediment basin 3B sump area.
4. Eliminate landfill gas odors near well 709.

Signed:

*Michael W. Lindberg*

# February Site Visits

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## February 21, 2019:

James Aidukas (UltraSystems)

Tarik Hadj-Hamou (SLR)

Mike Lindsay (UltraSystems)





**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 2/21/19
Site Conditions: Cloudy 45-50° F, 0-5 MPH winds	
<b>SITE LOG</b>	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood and school areas from 6:50 to 7:20 a.m. and there were no landfill odors detected. The pavement on Balboa Boulevard at Woodley Avenue was observed and no odors were detected. Met with Mike Lindsay (UltraSystems) and Tarik Hadj-Hamou (SLR) and signed in at the office, and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• CC-4 Part 1/Part 2 slopes had erosion rills on the west and south facing dirt slopes. The straw wattles performed well in the heavy rain events. There was significant sediment in the bottom of the HDPE drainage channel around Part 2, with the southern portion filled with water.</li> <li>• The HDPE downcomer installed on the southern slope of Part 1 in January performed well. One portion appears to be blown loose of the sand bags, possibly from wind, and will need repair.</li> <li>• A City sanitation packer truck driver drained waste liquids onto the pavement while waiting in line at the scales before 9:00 a.m.</li> <li>• The closure turf appeared to be maintained. There was one area just west of the concrete block retaining wall that had a prior soil and turf washout that was filled with water. There was minor water ponding on the turf in a few bench areas.</li> <li>• Sierra Highway was free of illegal dumping and litter.</li> <li>• The slope above the San Fernando Road retaining wall had soil sloughing during the recent rains. The drainage ditch is filled in multiple areas with soil and the oak tree has more bare roots showing.</li> <li>• The westside concrete drainage channels into the terminal basin were performing well. The dirt slopes along the sides of the channels had more erosion rills.</li> <li>• The terminal basin has water at the top of the risers and water was being release without use of the skimmer. Water at the outlet channel appears to be free of sediment. Windblown litter was floating on top of the water in the basin. The southern portion of the gabion wall has sediment over the top.</li> <li>• The southern perimeter gate was locked.</li> <li>• Deck B sage mitigation existing native plants and planted plants were doing well with the wet and cool weather.</li> <li>• Deck C sage mitigation was doing well. The PM-10 oak trees were recovering from the extreme summer heat.</li> <li>• The CC-4 Part 3 buttress was being constructed and there were no rain impacts needing repair.</li> </ul>	

Page 2 of 2, 2/21/19:

- Seeded slopes were greening up.
- Basin B had a minimal amount of wet sediment on the floor of the basin. There were two areas where the adjacent native slopes sloughed into the basin.
- Basin A had a significant amount of sediment and water was covering approximately One-third of the basin. Water out was minimal.
- Water was being pumped out of the CC-4 Part 3 buttress temporary basin.
- Cell CC-4 Part 1/Part 2 was operating with no areas of concern observed.

Flare Operating Conditions:

- Flare 1 - 1691°F, 2152 SCFM, -57.67" vacuum, 30.58" out, 33% CH<sub>4</sub>, 0.9% O<sub>2</sub>, 100 ppm H<sub>2</sub>S
- Flare 3 - shut down
- Flare 9 - 1675°F, 2928 SCFM, -63.10" vacuum, 39.70" out
- Flare 10 - 1652°F, 3000 SCFM
- Flare 11 - 1630°F, 3014 SCFM

The north blower on the blower skid had a flange leaking landfill gas. The gas-to-energy plant was using 7,855 SCFM of recovered landfill gas, 43% CH<sub>4</sub>, 1.2% O<sub>2</sub>, 80 ppm H<sub>2</sub>S. Total gas volume recovered was 18,949 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 



### SUNSHINE CANYON LANDFILL

#### MITIGATION MONITORING SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 11
Discipline: Civil – Geotechnical and Hydrology	Date: February 21, 2019
Site Conditions: Cold and partly cloudy	
<b>SITE LOG</b>	
7:00 Meet with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill, review of previous visits, discuss potential issues, organize areas and features to inspect.	
8:30 Sign-up at landfill	
<b>8:30– 1:30 Site inspection</b> <ul style="list-style-type: none"> <li>• Tour of landfill</li> <li>• Access Roads</li> <li>• Waste placement</li> <li>• Erosion protection system</li> <li>• Drainage systems (Basins, channels)</li> <li>• Construction of buttress for Cell CC4 Part 4</li> <li>• Landfill for geotechnical and hydrological issues</li> <li>• Other observations</li> <li>• Meet with Republic staff</li> </ul>	
<b>Access Roads.</b> <ul style="list-style-type: none"> <li>• Main access road: No additional sloughing observed on the embankment on the Terminal Basin side, just at the edge of the previously repaired area at the limit of the jute netting. No stability concerns</li> <li>• Access road to administration pad: no change to the depression in up-slope adjacent to road and noted in previous visit</li> </ul>	
<b>Waste Placement</b> <ul style="list-style-type: none"> <li>• Waste was placed in Cell CC4 Phase 2/3.</li> <li>• ADC was used (Photo 1)</li> <li>• 4 Filters were in use (Photo 2)</li> </ul>	
<b>Drainage System</b> <ul style="list-style-type: none"> <li>• Terminal Basin <ul style="list-style-type: none"> <li>– Additional sediments have accumulated upstream of the separator gabion wall and now reach the top tier of the wall on the south side (Photo 3) – But the volume occupied by that sediment should not impact the functionality of the basin.</li> <li>– The three skimmers were raised (Photo 4)</li> <li>– Water was ponding between the gabion wall and has reached the top of the decant towers, water was observed to drain (Photo 5)</li> <li>– Water has seeped through the weep holes at the of the basin wall as indicated by red staining (Photo 6)</li> <li>– Water flowing out of the basin was clean, no waste was observed (Photo 7)</li> </ul> </li> <li>• Cell CC3 Earthen basin <ul style="list-style-type: none"> <li>– The basin is clean and available for storage</li> <li>– Some erosion gullies on downstream side of the earth embankment observed on 22 January 2019 have not worsened and do not pose a stability risk (Photo 8)</li> </ul> </li> </ul>	

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- Basin D
  - Basin is clean
- Basin B
  - Basin empty of water but contains a small amount of sediment but not enough to affect the anticipated performance of the basin to store stormwater. (Photo 9)
- Ditch along access road to Flare 9-11
  - The drain at the end of the concrete on side of road is plugged by sediments (Photo 10)
- Channels
  - First segment west of the access road to Flare Outlet. the geomembrane has been partly uplifted by water flowing under and weeds have accumulated thereby reducing the flow area (Photo 11) of the channel
  - Second segment west of the access road to Flare Outlet where water flowing under the geomembrane uplifted the corrugated steel pipe placed in the channel: the pipe and geomembrane have been removed to allow free flow of water (Photo 12). Segment of pipe under the power pole pad is still in place
- Basin A
  - Basin held some water (Photo 13) but provide enough capacity for a large storm.
  - Sediments have accumulated at the back, but volume is small enough and should not impact the overall storage capacity of the basin (Photo 13)
  - Due to the excavation for cell CC4 Phase 4, the channel out of Basin A was removed but a new channel will be rebuilt when earthwork is completed. It is our understanding from Republic staff, that when a storm occur the contractor (Sukut) is responsible for managing the stormwater and whatever erosion results. As for previous storms the water is directed toward a retention basin at the toe of the buttress and pumped out into the main concrete channel connected to the terminal basin.
- Moat around Cell CC3 Part 2
  - No water in the moat but a fair amount of sediment. However, the maximum elevation of the water would still be under the elevation of the bottom of the waste in Cell CC4 Phase 3 therefore there is no issue (Photo 14)

## Excavation for Cell 4 Phase 3

- No Excavation/fill placement work was ongoing at time of our inspection
- Compaction was monitored by a technician using a nuclear gauge (Photo 15)

## Erosion Protection Systems

- Some erosion gullies have developed despite the protection blankets and wattles installed on numerous slopes.
- In general all the systems have held quite well during the last storms

## Other Observations

- Wall along San Fernando Road
  - Some erosion and sloughing have occurred and filled up the drainage swale
  - Erosion of softer soil on the side of the cliff has left an overhang (Photo 16) that could fall and hit the road.
  - More roots of a tree at top of slope have been exposed and the tree may be at risk of toppling

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

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**FURTHER REVIEW NEEDED**

- None

**COMMENTS**

- Republic should as their geotechnical consultant to inspect the soil/rock overhang on the side of the cliff above the wall on San Fernando Road

Signed:

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Photo 1: Use of ADC at the waste face in Cell CC4



Photo 2: Four tilters in use for waste placement at Cell CC4

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Photo 3: Sediment level in Terminal Basin



Photo 4: Raised skimmers at Terminal Basin

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Photo 5: Water level and waste accumulation near decant towers at Terminal basin



Photo 6: Reddish deposit form water seeping through weep holes at the bottom of the wall

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Photo 7: Water exiting Terminal basin



Photo 8: Erosion on slope of embankment for earthen basin CC3

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Photo 9: Sediment in basin B



Photo 10: Sediments plugging drain at end of ditch along access road to Flares 9-11

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Photo 11: Damage to membrane on first segment of channel west of the access road to Flares 9-11



Photo 12: Culvert removed on second segment of channel west of the access road to Flares 9-11

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Photo 13: Low water volume and limited sediment accumulation in Basin A



Photo 14: Sediment accumulation in moat around Cell CC4 Phase 3

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Figure 15: CQA monitoring of buttress



Figure 16: Overhang above wall along San Fernando road

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# March Site Visits

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## March 05, 2019:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 3/5/19
Site Conditions: Cloudy 50-70° F, 0-5 MPH winds	
<b>SITE LOG</b>	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood and school areas from 6:45 to 7:30 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems) and signed in at the office, and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• CC-4 Part 1/Part 2 western slope rills had not been repaired. The HDPE downcomer on the southern slope was not yet repaired.</li> <li>• The closure turf appears to be maintained. No ponding of water was observed.</li> <li>• The main access road slope near the terminal basin's inlet had one area where vegetation sloughed and that area was being repaired.</li> <li>• The terminal basin had a significant amount of sediment. Sediment topped the southern portion of the gabion wall. There was standing water in the eastern portion of the basin. Water was at the outlet riser's top and flowing out. Litter was floating on the water near the outlet risers.</li> <li>• The alluvial groundwater pump system was not working and alluvial water was observed seeping into the basin from the concrete floor at the basin's inlet.</li> <li>• The old city south landfill had a couple vegetated area that sloughed after the rains.</li> <li>• There was an abandoned car observed under the I-14 overpass on Sierra Highway.</li> <li>• The southern perimeter oil field gate was locked.</li> <li>• The slope above the San Fernando Road retaining wall had more soil sloughing during the recent rains. The drainage ditch was filled in multiple areas with soil and spilling over the wall. The oak tree had more bare roots showing.</li> <li>• City Deck B sage mitigation had some erosion from the rain events. The planted plants and seed were growing with the cool and wet weather. The existing sage community was growing and looked healthy.</li> <li>• City Deck C sage mitigation was growing well. A minor amount of non-native plants were observed.</li> <li>• The CC-3A slopes had erosion rills. No exposed waste was observed.</li> <li>• The County bowl area had deep erosion rills in some areas. No waste was exposed.</li> <li>• The County northeast top deck had areas of ponding water.</li> <li>• Seeded areas had vegetation growing.</li> <li>• Basin B had a minimal amount of wet sediment on the floor of the basin, approximately one foot deep. There were two areas where the adjacent native slopes sloughed into the basin.</li> <li>• Basin A had a significant amount of sediment and water was covering the basin.</li> </ul>	



Page 2 of 2, 3/5/19:

Flare Operating Conditions:

- Flare 1 - 1677°F, 2290 SCFM, -57.59" vacuum, 30.64" out, 33% CH<sub>4</sub>, 1.6% O<sub>2</sub>, 100 ppm H<sub>2</sub>S
- Flare 3 - shut down
- Flare 9 - 1655°F, 2928 SCFM, -62.30" vacuum, 37.70" out
- Flare 10 - 1653°F, 2989 SCFM
- Flare 11 - 1657°F, 2935 SCFM

The gas-to-energy plant was using 5,542 SCFM of recovered landfill gas, 47% CH<sub>4</sub>, 1.7% O<sub>2</sub>, 88 ppm H<sub>2</sub>S. The gas-to-energy facility staff were performing maintenance on equipment. Total gas volume recovered was 16,600 SCFM.


FURTHER REVIEW NEEDED

COMMENTS

Signed: 

**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 03-05-2019      Tuesday
Site Conditions: Mostly Cloudy, 50–69 °F, 2–8 mph, 74% RH	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Met with Jim Aidukas (UltraSystems), and checked into office.</li> <li>2. Traffic spotters are onsite to control traffic.</li> <li>3. Terminal basin has water above part of central gabion wall due to rain events. Water level is at the top of the riser drains.</li> <li>4. Sierra Highway has an abandoned car near the I-14 overpass.</li> <li>5. Perimeter gate at oil field road is closed and locked.</li> <li>6. Street sweepers are cleaning the haul roads.</li> <li>7. Flare 1 is operating at 2252 scfm, 1677 °F. Gas sample measured at 33 % Vol. CH<sub>4</sub>, 1.6 % Vol. O<sub>2</sub>, 100 ppm H<sub>2</sub>S and 242 ppm CO. Gas inlet temperature is at 104 °F.</li> <li>8. City Deck B sage mitigation area is in good growing condition, including new cactus plantings.</li> <li>9. City Deck C sage mitigation area is in good growing condition, with several bird species present.</li> <li>10. Observed overall landfill conditions from observation deck, including excavation work for the buttress and Cell CC-4 Part 3.</li> <li>11. Cell CC-3B is in good order, with no odors present.</li> <li>12. Sediment basin B is in good order, with no ponding water.</li> <li>13. Flare 9 is operating at 2927 scfm, 1651 °F. Gas sample measured at 47 % Vol. CH<sub>4</sub>, 1.7 % Vol. O<sub>2</sub>, 88 ppm H<sub>2</sub>S and 282 ppm CO. Gas inlet temperature is at 125 °F.</li> <li>14. Flare 10 is operating at 2950 scfm, 1653 °F.</li> <li>15. Flare 11 is operating at 2929 scfm, 1657 °F. Blowers 1, 2, 3 and 4 are in operation.</li> <li>16. Water trucks are applying water throughout site for dust control.</li> <li>17. Perimeter gate at secondary access road is closed but unlocked.</li> <li>18. Sediment basin D drainage channel is in good order.</li> <li>19. Cell CC-4 Part 1/2 working area is in good order, including four tippers, traffic controllers, water misters and water trucks. ADC is 60% covered with new trash at 11:30 AM.</li> <li>20. Sediment basin A has 3 to 4 feet of sediment, with standing water at riser drains due to rains.</li> <li>21. Met with Joshua Mills (Republic), and discussed our site monitoring observations.</li> </ol>	

<b>FURTHER REVIEW NEEDED</b>
<ol style="list-style-type: none"> <li>1. Remove abandoned car from Sierra Highway.</li> </ol>
Signed: 

**March 28, 2019:**

James Aidukas (UltraSystems)

Tarik Hadj-Hamou (SLR)

Mike Lindsay (UltraSystems)





**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aldukas	Page: 1 of 2
Discipline: Project Manager	Date: 3/28/19
Site Conditions: Cloudy 50-70° F, 0-5 MPH winds	
<b>SITE LOG</b>	
<p>Republic General Manager - Chris Coyle</p> <p>Drove the Granada Hills neighborhood and school areas from 6:30 to 7:15 a.m. and there were no landfill odors detected. Met with Mike Lindsay (UltraSystems) and Tarik Hadj-Hamou (SLR), signed in at the office, and proceeded to monitor the site and observed the following:</p> <ul style="list-style-type: none"> <li>• Sierra Highway and San Fernando Road were clear of litter and illegally dumped waste.</li> <li>• The Van Gogh School and the adjacent neighborhood was monitored after 9:00 a.m. and no landfill odors were detected.</li> <li>• The alluvial groundwater pump system was operating and alluvial water into the terminal basin was being controlled, but not completely stopped.</li> <li>• The terminal basin some sediment moved near the entrance of the basin into piles to de-water the sediment. The gabion wall had sediment over the center area of the wall. The water level was at the top of the risers and flowing out. The outlet channel had no sediment and the water appeared to be sediment free.</li> <li>• The main access road's slope near the terminal basin's inlet were repaired and vegetated.</li> <li>• The southern perimeter oil field gate was locked.</li> <li>• There were no odors at the CC-3B leachate pumping area. The groundwater flow in the surface channel stopped flowing.</li> <li>• The eastside drainage channel gabions were loaded with sediment and debris.</li> <li>• The Old City North area was graded and a surface drain was installed near the future scales area.</li> <li>• The Adler tank facility was treating the leachate liquids for sulfides prior to being sewerred.</li> <li>• The CC-3A slopes and County bowl area vegetation was doing well.</li> <li>• Basin B was dry with minimal sediment. There were two areas of slope sloughed soil.</li> <li>• There was an area of water ponding on the County's northeast top deck.</li> <li>• The County sage mitigation area greened up with the native sage community doing well.</li> <li>• Basin A was full of water and had no drainage due to construction activities. Water was being pumped into trucks for use.</li> <li>• The canyon area south of Basin A had windblown litter in the vegetation.</li> <li>• CC-4 Part 3 grading and buttress construction was ongoing.</li> <li>• City Deck B sage mitigation was being maintained and plants and seeded groundcover growing. Existing native community was growing.</li> <li>• City Deck C sage mitigation was doing well. Minor areas that needed mustard removal were observed.</li> </ul>	

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- Cell CC-4 Part 1/Part 2 was accepting waste with no concerns observed.

Flare Operating Conditions:

- Flare 1 - 1699°F, 2149 SCFM, -57.88" vacuum, 38.62" out, 38% CH<sub>4</sub>, 1.7% O<sub>2</sub>, 100 ppm H<sub>2</sub>S
- Flare 3 - shut down
- Flare 9 - 1648°F, 2789 SCFM, -63.01" vacuum, 39.42" out
- Flare 10 - 1657°F, 2784 SCFM
- Flare 11 - 1657°F, 2665 SCFM

The gas-to-energy plant was using 8,006 SCFM of recovered landfill gas, 45% CH<sub>4</sub>, 1.0% O<sub>2</sub>, 91 ppm H<sub>2</sub>S. Total gas volume recovered was 18,393 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 



## SUNSHINE CANYON LANDFILL

MITIGATION MONITORING  
SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 13
Discipline: Civil – Geotechnical and Hydrology	Date: March 28, 2019
Site Conditions: Sunny and warm	
<b>SITE LOG</b>	
7:00 Meet with UltraSystems team members Jim Aidukas and Mike Lindsay, prepare tour of landfill, review of previous visits, discuss potential issues, organize areas and features to inspect.	
8:00 Sign-up at landfill	
8:00– 1:30 Site inspection	
<ul style="list-style-type: none"> <li>• Tour neighborhood to check for odor and illegal waste dumping</li> <li>• Tour of landfill</li> <li>• Access Roads</li> <li>• Waste placement</li> <li>• Erosion protection system</li> <li>• Drainage systems (Basins, channels)</li> <li>• Construction of buttress for Cell CC4 Part 4</li> <li>• Landfill for geotechnical and hydrological issues</li> <li>• Other observations</li> <li>• Meet with Republic staff</li> </ul>	
Access Roads.	
<ul style="list-style-type: none"> <li>• Main access road: No additional sloughing observed on the embankment on the Terminal Basin side, just at the edge of the previously repaired area at the limit of the jute netting. No stability concerns</li> </ul>	
Waste Placement	
<ul style="list-style-type: none"> <li>• Waste was placed in Cell CC4 Phase 2/3.</li> <li>• ADC was used (Photo 1)</li> <li>• 4 Tilters were in use (Photo 2)</li> </ul>	
Drainage System	
<ul style="list-style-type: none"> <li>• Terminal Basin               <ul style="list-style-type: none"> <li>– Additional sediments have accumulated upstream of the separator gabion wall and was above the top tier of the wall on the south side (Photo 3) – But the volume occupied by that sediment should not impact the functionality of the basin for the rest of the rainy season. However water will flow directly out through the decant tower and may not have enough time for the sediments to settle.</li> <li>– The three skimmers were raised (Photo 4)</li> <li>– Water was ponding between the gabion wall and has reached the top of the decant towers, water was observed to drain (Photo 4)</li> <li>– Water was seeped at the connection between the wall of the basin and the floor slab as well as in thought the joint between panels of the floor slab (Photo 5). Seeping water has left red stains on the concrete (Photo 6)</li> <li>– Water flowing out of the basin was reddish but not muddy, no waste was observed (Photo 7)</li> </ul> </li> <li>• Cell CC3 Earthen basin               <ul style="list-style-type: none"> <li>– The basin is clean and available for storage</li> </ul> </li> </ul>	

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- the erosion gullies on downstream side of the earth embankment observed in previous visits have not worsened and are protected by heavy vegetation and do not pose a stability risk (Photo 8)
- Channel between Basin B and Terminal basin
  - Some erosion has occurred along the edge of the shotcrete where surface water from the old city deck has made a flow path towards the channel (Photo 9). Also some sediments have accumulated at the location of the asphalt berm/gabion installed to slow down the velocity in of water in the channel. (Upper portion of Photo 9)
- Basin B
  - Basin empty of water but contains a small amount of sediment but not enough to affect the anticipated performance of the basin to store stormwater. (Photo 10)
- Basin D
  - Basin is clean
- Ditch along access road to Flare 9-11
  - The drain at the end of the concrete on side of road is plugged by sediments (Photo 11) forcing water to flow onto the road and erode the soil at the edge of the asphalt road and created a deep rut (Photo 12) at the toe of the road to connect to reach the drainage channel.
- Channels between Basin B and Basin D
  - Segment between Basin D and power pole: The CMP pipe has been reinstalled, and the geomembrane removed providing full flow capacity (Photo 13)
  - Segment between power pole access road to Flare Outlet: rumpled geomembrane observed during previous visit has been removed providing full flow capacity in channel (Photo 14)
  - There is a gap between the shotcrete and the soil along the edge of the channel (Photo 15). Infiltration of rain water may lead to additional damages.
- Basin A
  - Basin held water (Photo 16) but active management approach agreed upon should permit to act in case of a large storm forecast. Due to the excavation for cell CC4 Phase 4, the channel out of Basin A was removed but a new channel will be rebuilt when earthwork is completed. It is our understanding from Republic staff, that when a storm occurs the contractor (Sukut) is responsible for managing the stormwater and whatever resulting erosion. As for previous storms the water would be directed toward a retention basin at the toe of the buttress and pumped out into the main concrete channel connected to the terminal basin.
  - Some sloughing and a rock slide have occurred at far end of basin but do not pose a risk to the landfill facilities or reduce the storage capacity of the basin. (Photo 17)
- Moat around Cell CC3 Part 2
  - No water in the moat but a fair amount of sediment. However, the maximum elevation of the water would still be under the elevation of the bottom of the waste in Cell CC4 Phase 3 therefore there is no issue (Photo 18)

#### Excavation/Buttress for Cell 4 Phase 3

- Fill placement work was ongoing at time of our inspection
- Compaction was monitored by a technician
- Moisture condition and watering of the access roads was on-going throughout the duration of our visit (Photo 19)

#### Erosion Protection Systems

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

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**Other Observations**

- Wall along San Fernando Road
  - No changes since last visit. Erosion and sloughing have occurred and filled up the drainage swale
- Some ponding was observed on the county side deck of landfill
- No odor detected outside of landfill and no illegal dumping observed

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

**FURTHER REVIEW NEEDED**

- None

**COMMENTS**

- Republic should as their geotechnical consultant to inspect the soil/rock overhang on the side of the cliff above the wall on San Fernando Road

Signed: 

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Photo 1: Use of ADC at the waste face in Cell CC4



Photo 2: Four tilters in use for waste placement at Cell CC4

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Photo 3: Sediment level in Terminal Basin

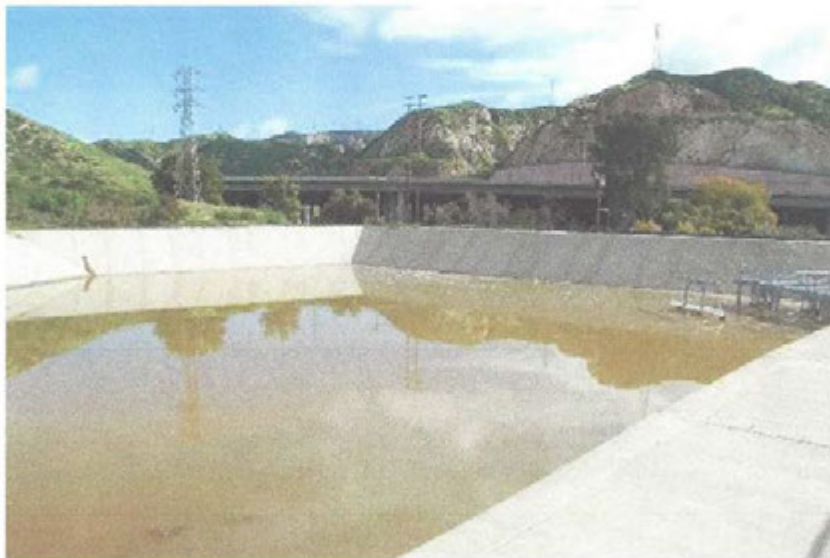


Photo 4: Raised skimmers and water level at decant towers at Terminal Basin

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



Photo 6: Reddish deposit from water seeping through weep holes at the bottom of the wall

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Photo 7: Reddish water exiting Terminal basin



Photo 8: Vegetation covering erosion gullies on slope of embankment for earthen basin CC3

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Photo 9: Erosion along edge of channels between Basin B and Terminal Basin and sediments trapped on gabion



Photo 10: Sediments in basin B

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



Photo 12: Erosion gully at edge of access road to Flares 9-11

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Photo 13: Reinstalled CMP in channel segment between Basin D and power pole



Photo 14: Cleaned up channel between power pole and access road to Flares 9-11

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Phot 15: erosion along the edge of concrete channel between power pole and access road to Flares 9-11



Photo 16: High water level in Basin A

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Photo 17: soil and rock slide at back of Basin A



Photo 18: Nearly empty moat around Cell CC4 Phase 3

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Figure 19: Moisture conditioning on roads



Figure 20: Deep erosion gullies on interim cover – County landfill deck

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**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 03-28-2019 Thursday
Site Conditions: Mostly Cloudy, 50–69 °F, 2–8 mph, 74% RH	

**SITE LOG**

1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office and with Joshua Mills.
2. Water trucks are applying water throughout site for dust control.
3. Sierra Highway is clear of debris and dumped trash.
4. No odors are present in the adjacent neighborhood and school at 9:00 AM.
5. Terminal basin has sediment four feet above part of central gabion wall due to rain events. Water level is at the top of the riser drains.
6. Perimeter gate at oil field road is closed and locked.
7. Street sweepers are cleaning the haul roads.
8. Alder tanks at tank farm have liquids being treated before sewerage.
9. Cell CC-4 Part 1/2 working area is in good order, including four tippers, traffic controllers, water misters and water trucks. ADC is 60% covered with new trash at 11:15 AM.
10. Sediment basin B is in good order, with no ponding water.
11. Flare 9 is operating at 2732 scfm, 1656 °F. Gas sample measured at 45 % Vol. CH<sub>4</sub>, 1.0 % Vol. O<sub>2</sub>, 91 ppm H<sub>2</sub>S and 207 ppm CO. Gas inlet temperature is at 128 °F.
12. Flare 10 is operating at 2721 scfm, 1646 °F.
13. Flare 11 is operating at 2801 scfm, 1647 °F. Blowers 1, 2, 3 and 4 are in operation.
14. Sediment basin D drainage channel is in good order, with uplifted pipe repaired and dislocated membrane removed.
15. Traffic spotters are onsite to control traffic.
16. Sediment basin A standing water is at top of riser drains due to rains.
17. Buttrass and Cell CC-4 Part 3 grading continues, with a new access road constructed along ridge.
18. Flare 1 is operating at 2139 scfm, 1692 °F. Gas sample measured at 38 % Vol. CH<sub>4</sub>, 1.7 % Vol. O<sub>2</sub>, 100 ppm H<sub>2</sub>S and 232 ppm CO. Gas inlet temperature is at 120 °F.
19. City Deck B sage mitigation area is in good growing condition.
20. Observed overall landfill conditions from observation deck, including excavation work for the buttrass and Cell CC-4 Part 3.
21. City Deck C sage mitigation area is in good growing condition, including several species of flowering plants.
22. Met with Joshua Mills, Tuong-phu Ngo and Mike DeYoung (Republic), and discussed our site monitoring observations.

**FURTHER REVIEW NEEDED**

1. NA.

Signed: 

# Appendix IV

## Meeting Logs

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**Sunshine Canyon Landfill  
Meeting Log for January 2019 Site Monitoring**

January 22, 2019

Post-monitoring meeting with Chris Coyle, Joshua Mills and Tuong-phu Ngo (Republic).

Attendees:

Vu Truong, LACDPW  
James Aidukas, UltraSystems  
Tarik Hadj-Hamou, SLR  
Mike Lindsay, UltraSystems



Discussion:

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

- a. James Aidukas stated that there were no odors in the adjacent neighborhood and school area this morning.
  - o Joshua Mills acknowledged the statement.
- b. James Aidukas stated that there were strong greenwaste odors detected on Blucher Avenue near the City Van Norman mulching facility entrance this morning and that the source could not be determined.
  - o Joshua Mills acknowledged the statement.
- c. Tarik Hadj-Hamou stated that there was a lot of sediment in the terminal basin; as much as seven feet at the gabion wall.
  - o Joshua Mills acknowledged the statement.
- d. Tarik Hadj-Hamou stated that Basin B has a back slope that is sloughing.
  - o Joshua Mills acknowledged the statement.
- e. Tarik Hadj-Hamou stated that the Basin D drainage eastern outlet channel has a large corrugated pipe that lifted out of the ground from water getting under the channel HDPE liner and recommended temporarily removing the liner.
  - o Joshua Mills acknowledged the statement.
- f. Tarik Hadj-Hamou asked if Basin A had its outlet temporarily plugged.
  - o Joshua Mills stated that it was not plugged. The outlet was flowing during the rain storms and is now being pumped out.
- g. Tarik Hadj-Hamou stated that there is an erosion gully on the side of Cell CC-4 Part 2.
  - o Joshua Mills acknowledged the statement.
- h. Tarik Hadj-Hamou stated that the oak tree on the slope above the retaining wall on San Fernando Road has lost more soil around its roots from the recent rains and could pose a problem.
  - o Joshua Mills stated that the tree is on a DWP easement.
- i. James Aidukas stated that the CC-3B Basin had liquid odors, coming from the sump area.



- Joshua Mills stated that they will look into it.
- j. James Aidukas stated that there was a strong gas odor around well 709, which is near the haul road turn off to the CC-3B top deck.
  - Joshua Mills acknowledged the statement.
- k. James Aidukas stated that there was no illegal dumping nor debris on Sierra Highway.
  - Joshua Mills acknowledged the statement.
- l. Mike Lindsay stated that the slope below the main access road by the Terminal basin had sloughed from the recent rains where wattles were not placed.
  - Joshua Mills acknowledged the statement.
- m. Mike Lindsay asked what the new concrete forms were being constructed for just north of Basin A.
  - Joshua Mills stated that they are for the future perimeter drainage system.
- n. Vu Truong stated that liquids were observed coming out of a City truck as it traveled on the main access road to the scales.
  - Joshua Mills stated that they will look into it.
- o. Vu Truong asked if Cells CC-4 Parts 1 and 2 have been combined.
  - Joshua Mills stated that yes, they have been combined.
- p. James Aidukas stated that UltraSystems would like to review the further review needed items that are presented in the UltraSystems 2018 Q4 report, along with other conditions that we usually check annually and that we will prepare and provide a list to Republic.
  - Joshua Mills acknowledged the statement.

The meeting was then adjourned.

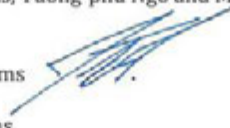
**Sunshine Canyon Landfill  
Meeting Log for February 2019 Site Monitoring**

February 21, 2019

Post-monitoring meeting with Joshua Mills, Tuong-phu Ngo and Mike DeYoung (Republic).

Attendees:

James Aidukas, UltraSystems  
Tarik Hadj-Hamou, SLR  
Mike Lindsay, UltraSystems



Discussion:

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

- a. James Aidukas stated that there were no odors in the adjacent neighborhood and school areas this morning.
  - o Joshua Mills acknowledged the statement.
- b. James Aidukas stated that the entire site looks very good, especially considering the heavy rains.
  - o Joshua Mills acknowledged the statement, and stated that they received ten inches of rain in the past two months.
- c. James Aidukas stated that the retaining wall on San Fernando Road has soil impacting its drainage ditch due to the recent rains.
  - o Joshua Mills stated that it will be cleaned out after the rain season ends.
- d. James Aidukas stated that we observed that the basin D drainage channel had the uplifted pipe replaced and the HDPE liner that was blocking water flow removed. The channel appears to be fully functioning.
  - o Joshua Mills acknowledged the statement.
- e. James Aidukas asked how much higher will the buttress be at the completion of the fill.
  - o Joshua Mills stated that it will have compacted fill up to the base of Edison tower 15.
- f. James Aidukas stated that the north blower on the flares 9, 10, 11 blower skid had a flange leaking landfill gas.
  - o Joshua Mills acknowledged the statement.
- g. James Aidukas stated that a refrigerator has been dumped on San Fernando Road east of the landfill entrance.
  - o Joshua Mills acknowledged the statement.
- h. Tarik Hadj-Hamou stated that a City packer truck driver stopped and drained the liquid out of the packer section while waiting at the scales before 9:00 a.m..
  - o Joshua Mills stated that they will talk to the city sanitation managers about this issue.

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- i. Tarik Hadj-Hamou asked if Republic was building a concrete inlet for the 72-inch pipe on the old city south bench.
  - o Joshua Mills stated that yes, the forming is for the drainage pipe systems inlet.
- j. James Aidukas asked when Republic will reabandoned the two oil well pipes at the buttress.
  - o Joshua Mills stated that they were waiting for approval of the application to DOGGR.
- k. Mike Lindsay asked for a map that shows all of the gas well locations.
  - o Joshua Mills stated that they already sent DPW the as-built drawing.

The meeting was then adjourned.



**Sunshine Canyon Landfill  
Meeting Log for March 2019 Site Monitoring**

March 5, 2019

Post-monitoring meeting with Joshua Mills (Republic).

Attendees:

James Aidukas, UltraSystems  
Mike Lindsay, UltraSystems

Discussion:

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

- a. James Aidukas stated that there were no odors in the neighborhood and school this morning.
  - o Joshua Mills acknowledged the statement.
- b. James Aidukas stated that Flare 1 had odors while an SCS worker was repairing a gas valve.
  - o Joshua Mills acknowledged the statement.
- c. James Aidukas stated that vegetation is coming back everywhere.
  - o Joshua Mills stated that they shot the whole area again with hydroseed.
- d. James Aidukas stated that the site has some ponding water due to recent rains.
  - o Joshua Mills stated that they may add additional drainage channels in some areas in addition to doing some grading.
- e. James Aidukas stated that the terminal basin was observed to be full of water and a significant amount of sediment.
  - o Joshua Mills stated that they received 30 inches of rain so far, with maybe four more inches expected this week.
- f. Mike Lindsay stated that an abandoned broken down car was observed on Sierra Highway.
  - o James Aidukas stated that UltraSystems would call 311 and report it, in addition to Republic.
- g. James Aidukas stated that we observed that the HDPE downcomer channel by basin A has been removed.
  - o Joshua Mills stated that they removed it on purpose for the Cell CC-4 Part 3 construction.
- h. James Aidukas stated that secondary containment is missing under trucks being serviced.
  - o Joshua Mills stated that they will talk to the contactors again about this issue.
- i. James Aidukas stated that the landfill gas recovered was low, at approximately 16,600 SCFM.
  - o Joshua Mills stated that normally they are recovering 17,200 SCFM, but the gas-to-energy facility was doing equipment maintenance.

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The meeting was then adjourned.

March 28, 2019

Post-monitoring meeting with Joshua Mills, Tuong-phu Ngo and Mike DeYoung (Republic).

Attendees:

James Aidukas, UltraSystems  
Tarik Hadj-Hamou, SLR  
Yoa Bourdon, SLR  
Mike Lindsay, UltraSystems

Discussion:

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

- a. James Aidukas stated that we understood that there was a power surge since our last monitoring that caused operational impacts at the landfill.
  - o Joshua Mills stated that the DWP Sylmar Substation had a lightning arrestor fail. An 85-megawatt spike was produced on the SoCal Edison grid. This cause landfill gas control and recovery systems to shutdown and some burnt up. The repair to all systems was still ongoing.
- b. James Aidukas asked if the electric surge caused any air quality problems.
  - o Joshua Mills stated that many odor complaints were generated.
- c. James Aidukas stated that there were no odors in the neighborhood and school areas this morning.
  - o Joshua Mills acknowledged the statement.
- d. James Aidukas stated that there is windblown litter in the canyon south of the buttress.
  - o Joshua Mills stated that they will clean that up.
- e. Tarik Hadj-Hamou stated that water is coming out of the terminal basin sidewall, near the alluvial cutoff wall.
  - o Joshua Mills stated that they will go and check the cutoff wall water removal pumps.
- f. James Aidukas stated that the leachate at the Alder tanks were being treated.
  - o Tuong-phu Ngo stated that they are pretreating the liquids with hydrogen peroxide.
- g. Yoa Bourdon asked about the ponding water near the County northeast top deck.
  - o Joshua Mills stated that they will have Sukut repair those low spots.
- h. Tarik Hadj-Hamou asked if a landslide occurred behind Basin A.
  - o Joshua Mills stated that a small, isolated slide occurred along the roadway, and that there is no trash in that location.
- i. Mike Lindsay asked if the buttress work was near completion.
  - o Joshua Mills stated that they are about 95 percent complete.

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- j. James Aidukas asked what the status was on re-abandoning the two dry hole oil wells near the buttress.
  - o Joshua Mills stated that they met with DOGGR yesterday and are pursuing permits to re-abandon the wells.

The meeting was then adjourned.