Sunshine Canyon Landfill
Independent Monitor
Quarterly Site Monitoring Status Report
October 1, 2019 – December 31, 2019

Prepared For:

City of Los Angeles Department of City Planning

And

County of Los Angeles Department of Regional Planning

Prepared By:

UltraSystems
environmental | management | planning

16431 Scientific Way
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Prepared On:

April 3, 2020

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CERTIFICATION STATEMENT

April 3, 2020

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated April 3, 2020 is the Fourth Quarterly Report for 2019, issued by UltraSystems. This report covers the monitoring period from October 1, 2019 through December 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

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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 October 1, 2019 to December 31, 2019. It includes:

1. The City and County Mitigation Monitoring Summary spreadsheets for October 1, 2019 to December 31, 2019. These spreadsheets record the areas of monitoring completed and the status of being compliant during the fourth 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

Three site visits were performed by UltraSystems during the October through December 2019 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on October 29, 2019; November 19, 2019; and December 11, 2019. The previously discussed conditions and/or mitigation measures were tracked by each specialist who visited, and observations were documented. Site conditions were noted to be: Compliant, Non-Compliant, or Further Review Needed. If a Condition was found to be Non-Compliant or observed as having Further Review Needed, a reference was made to an appendix which details what was observed by the monitor.

Definition of Terms

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

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

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

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

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

Status Summary

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

Compliant

The majority of the conditions and/or mitigation measures monitored were observed to be compliant. There are City and County conditions which are compliant, but are noted as having corresponding comments that refer to the appendices. The Compliant with Comments section of the monitoring report provides a summary of activities being done onsite to construct or maintain facilities, and a summary of documents, reports and drawings that should be readily available onsite for monitoring reference.

Non-Compliant

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

Further Review Needed

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

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

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

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

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

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

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

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

Current Status/Comments – There was no grading outside of the approved landfill development limits during the 4th Quarter except for CC-4 Part 3 drainage system and Flare 3 access road. There was grading and excavation occurring in all areas of the prior closed City landfill, the current landfill, and native areas to repair damage from the Saddleridge Fire. Grading and excavation were also ongoing to construct an employee access road from the main access road to the Old City North top deck. Grading for relocation of offices and future facilities was also in progress. Cell CC-4 Part 3 and CC-4 Parts 1/2 were accepting waste.

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 December, mid-day disposal trucks that were using dirt roads near the County Bowl area created dust clouds. The frequency of the roads being watered was not adequate. The dirt entrance road to CC-4 Part 3 was not being adequately watered and dust clouds were observed. This road could not yet be constructed with rock because of its proximity to the liner.

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

Current Status/Comments – During the 4th Quarter, no graffiti was observed on site nor on the landfill's exterior block walls.

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 late October, the gas-to-energy plant was using 8110 SCFM of recovered landfill gas, 42% CH4, 1.0% O2, 78 ppm H2S. Flare 1: shut down; Flare 3: shut down; Flare 9: 2670 SCFM; Flare 10: 2485 SCFM; Flare 11: 3026. The total volume of landfill gas being recovered was 16,291 SCFM.

In mid-November, the gas-to-energy plant was using 9099 SCFM of recovered landfill gas, 45% CH4, 2.0%, 97 ppm H2S. Flare 1: 2200 SCFM; Flare 3: not accessible; Flare 9: down for maintenance; Flare 10: 2936 SCFM; Flare 11: 2807 SCFM. The total volume of landfill gas being recovered was 17,042 SCFM.

In mid-December, the gas-to-energy plant was not operating. The gas quality being recovered was 42% CH4, 0.6% O2, 97 ppm H2S. Flare 1: 2141 SCFM; Flare 3: not accessible and not operating; Flare 9: 4148 SCFM; Flare 10: 3841 SCFM; Flare 11: 4885 SCFM. The total volume of landfill gas being recovered was 15,015 SCFM.

The quantity of landfill gas being recovered during the 4th Quarter has a daily average of 16,116 SCFM, with the gas-to-energy plant usage averaging 8604 SCFM. An expansion of the gas-to-energy plant or different beneficial-use facility should be evaluated.

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

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

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

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

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

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

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

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

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

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

Current Status/Comments – The only out-of-approved landfill footprint grading and excavation occurring in the 4th Quarter was related to the approved CC-4 Part 3 buttress-related drainage systems, Flare 3 access road and repairs to facilities cause by the Saddleridge Fire. The only other grading occurring was removal of stockpiled soils for cover, and grooming of slopes. These activities are inside the approved landfill footprint.

M-4.1.4(11) (City)
An operations checklist shall be used by a registered engineering geologist for surveys following all earthquake events measuring 5.0 on the Richter Scale or greater near the project site. A comparison of operating parameters and site conditions before and after major earthquake events shall be made to verify that systems are operational as designed. Final designs for major engineered structures shall be based on the results of the detailed stability analyses of potential seismic events.

Geology-1.16 (County)
An operations checklist will be used by a certified engineering geologist, registered civil engineer, or licensed surveyor for surveys following all earthquake events of 5.0 magnitude or greater.

Current Status/Comments – There were no earthquakes of 5.0 magnitude or greater in the area during this monitoring period.

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 4th Quarter, Closure Turf was being maintained, and gas and liquids recovery systems under the turf were performing well. This cover material was in lieu of vegetation on the south-facing slopes, and it controlled and eliminated dust and erosion. Other areas of the landfill were also hydroseeded. Areas affected by the Saddleridge Fire were also hydroseeded except for the sage mitigation decks and slopes. The soil stockpiled on the County top deck was being used for daily cover.

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 old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site was not reabandoned. An evaluation of the need to reabandon this well should be done. This well was not leaking oil or gas, and did not pose a current hazard. It is well beyond the approved landfill limits.

M-4.1.6 / 18 (City)

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

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

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

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

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

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

If an odor problem should develop, appropriate control measures shall be implemented. These measures include the application of additional dirt daily cover material or more frequent application

of the cover material to seal the landfill surface, or adjustments to the wells, equipment, and operation of the LFG collection and recovery system.
To ensure that odors are kept to a minimum, the following odor/LFG monitoring program shall be implemented for the proposed landfill project. The monitoring program shall comply with the requirements of SCAQMD Rule 1150.1 and include:
a. Sample Probe Installation: One monitoring probe per 1,000 feet or as identified by South Coast Air Quality Management District (SCAQMD) and/or Local Enforcement Agency (LEA) in the landfill expansion, and one probe per 650 feet or as identified by SCAQMD and/or LEA in the City Inactive landfill along the landfill perimeter, or whichever is more restrictive shall be installed to identify potential areas of subsurface landfill gas (LFG) migration. These probes shall be monitored to ensure that quantities of LFG beyond regulatory standards do not vent offsite through subsurface soils.
b. Integrated Landfill Surface Sampling: The landfill surface shall be monitored to ensure that the average concentration of total organic compounds over the landfill surface does not exceed SCAQMD's standard of 25 ppm.
c. Ambient Air Samples: 24-hour integrated gas samples and required meteorological data shall be taken to assess any impact the landfill is having on the ambient air quality at the landfill perimeter.
d. Instantaneous Landfill Surface Monitoring: Spot checks on the landfill surface shall be made to determine the maximum concentration of total organic compounds measured as methane, measured at any one point on the surface of the landfill does not exceed the SCAQMD's standard of 500 ppm.
e. Regular Monitoring and Annual Testing: LFG concentrations at perimeter probes, gas collection system headers, the landfill surface, and in ambient air downwind of the landfill shall be monitored once per month or less frequently (but no less than quarterly) as required by the SCAQMD. The LFG collection system shall be adjusted and improved based on quarterly monitoring data and annual stack testing results.

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

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

• Compliance history of the site's landfill gas migration control program from January 1, 2009, to the present quarter as well as any corrective actions.
• Discuss the impacts of the most recent heavy rains on the landfill gas collection system, including identifying locations of damage due to soil erosion, as well as any corrective actions or mitigation measures.
• A work plan that includes preventive measures, such as identifying and filling any surface cracks and installing additional extraction wells, as well as contingency measures.
• An implementation schedule for the above work plan.

Amendment 45.N - 5 (County)
Include in the Quarterly Dust and Odor Reports, which are required by CUP Condition No. 45.N, the status and effectiveness of mitigation measures 1 through 3 above, and the Odor Mitigation Plan.

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

In late October, the monitor drove the Granada Hills neighborhood area from 6:15 to 7:00 a.m. and there were no landfill odors detected. Access to many areas of the landfill was restricted due to construction repairs to the gas and liquids recovery systems.

In mid-November, the monitor drove the Granada Hills neighborhood areas from 6:30 to 7:00 a.m. and there were no landfill odors detected. Repairs to the gas and liquids recovery and handling systems were ongoing. Numerous areas were restricted due to ongoing construction to repair fire damage.

In mid-December, the monitor drove the neighborhood and school areas from 6:20 to 7:00 a.m. and there were no landfill odors detected. There were no areas of localized odors detected coming from the landfill or recovery systems during the monitoring.

Throughout the 4th Quarter, the use of Closure Turf to seal fill areas and function as intermediate cover provided enhanced gas recovery and gas-related odor control. No areas of the Closure Turf were impacted by the fire.

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.

During the 4th Quarter, surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas, and most conveyance V-ditches were unlined. Straw wattles were placed on the CC-4 Part 1/2 western and southern facing slopes. Other areas had jute netting or were hydroseeded. Erosion protection systems were in place.

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

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

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

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

M-4.3.1(45) (City)
An erosion control plan would be implemented by the project proponent to prevent stormwater pollution from construction activity. Construction materials, equipment and vehicles would be stored or parked in areas protected from stormwater runoff. Construction material loading and unloading would be in designated areas to minimize any washout due to stormwater runoff. Pre-construction controls would be implemented to include the use of a sandbagging system, including sandbag check dams and sandbag desilting basins, which would be used to limit runoff velocities and minimize sediment in storm water runoff.

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

Current Status/Comments – The erosion control measures were in place by October 15, 2019. After the December rain events, some gullies and ruts were observed on the slopes above the CC-4 Part 3 basin. The slopes in the County sage mitigation area had a minor increase in erosion rills. Other areas of the landfill erosion control systems performed well, with minor erosion occurring.

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

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

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

Current Status/Comments – In late October, Basin A was dry and all sediment was removed. The concrete westside channel and Basin A outlet channel were installed. Repairs to the fire-damaged gas mainline to Flare 3 were ongoing. The basin was ready for winter rain events. Basin B was dry and all sediment was removed. The basin was ready for winter rain events. Basin D was dry and had no sediment. Basin CC-4 Part 3 was dry and had no sediment. Basin CC-3B was dry and had construction ongoing to improve the drainage channel and construct an employee access road to the Old City North top deck. Completion was scheduled for the end of November. The terminal Basin had all the sediment removed. There was some standing water from the fire fighting. All basins were ready for winter rain events.

In mid-December, Basin A, B, CC-4 and CC-3B had some sediment and standing water from the December rain events. The terminal basin had a significant amount of sediment and standing water east of the gabion wall from those rain events.

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 – During the 4th Quarter, 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 was performed on a monthly basis. A summary report should be issued on a quarterly basis. Prior reports have been reviewed and are available at the landfill's main office.

Installation of new westside permanent and temporary concrete drainage channels were completed. A new concrete outlet was installed at Basin A, and tied into the new channel. The HDPE-lined basin in CC-4 Part 3 functioned well during the recent rain events. Water was being pumped out to the westside channel system. An outlet riser was installed at the CC-3B basin along with improvements to the channel to the riser. The terminal basin had the skimmer system repaired and was operational.

The high-flow spillway for Basin D into the westside drainage has cracks and spalling that was previously noted and not repaired. The Basin B high-flow spillway has cracks in multiple places that were not yet repaired. The terminal basin has vegetation growing out of cracks in the interior concrete sidewalls.

M-4.3.2(50) (City)
The LCRS shall be installed at the base and side slopes of the landfill. This system shall be designed and installed to collect generated leachate for disposal consistent with LARWQCB requirements. The collection system shall consist of a filter rock blanket embedded with a system of collection pipes or a blanket embedded with a system of collection pipes or geosynthetic alternative that collects and transports the fluid to a holding tank. In accordance with RCRA, Subtitle D, 40 CFR, Part 258, the collection systems shall be designed to limit the hydraulic head on the liner to less than 12 inches.

Collection pipes shall be sized and spaced to reduce the hydraulic head in the leachate collection system as specified in WDRs. Leachate shall be recovered and treated onsite. The treated leachate shall be sampled prior to discharge from the holding tank in accordance with the WDRs to determine suitability for reuse onsite per LAWRQCB requirements. Summary results of this sampling shall be disseminated in the newsletter with more detailed reporting on the website and in the Annual Report.

Current Status/Comments – The old City north top deck has a tank farm of 16 Alder storage tanks for processing recovered leachate and condensate, with a double-walled pipeline to the sewer connection at the entrance near San Fernando Road. During the 4th Quarter, this system operated with no odor detected at the sewer connection. Tank farm liquids were being treated with hydrogen peroxide.

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

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

Current Status/Comments – In late October, the monitor drove the oil field access road to monitor impacts from the Saddleridge Fire. The hillsides adjacent to the road were burned by the fire. The mitigation oak trees south of the oil field road were burned, but most will likely recover. The oil field was not burned, but some adjacent slopes to the east were. The south perimeter gate was locked and vegetation was burned to the southern boundary of the property. City decks A, B and C, and the Old City South landfill were access-restricted because of fire recovery work and were not monitored. The County sage mitigation slopes did not burn and were doing well. The area north of the slopes burned near well P-205R. The Big Cone Fir mitigation area was access-restricted due to downed powerlines.

In mid-November, access was restricted to all site mitigation areas due to construction activity in order to repair fire damage to facilities.

In mid-December, the monitor observed that Deck A native vegetation was totally burned by the fire. Plans to promote re-growth should be developed. The Deck B sage mitigation area was totally burned by the fire. Recovery plans should be developed and implemented. The Deck C sage mitigation area was totally burned and all of the PM-10 Oak trees were scorched by the fire. Some trees were badly burned. Recovery activity plans need to be developed and implemented. Some PM-10 Oak trees may not recover.

M-4.4.3/72 (City)
Native tree species shall be replaced at a 2:1 (replacement: removal) ratio, consisting of 15-gallon or 5:1 3-gallong container trees. Mitigation trees shall be planted prior to impacted trees being removed, thus allowing tress to grow to specimen size in the field. A specimen-size tree shall be defined as a 15-

gallon tree with a minimum trunk caliper of 1-inch measured 1-foot above ground. All mitigation trees shall be specimen size within 1 year after tree removal.

Biota - 4.10 (County)
The permittee shall comply with all terms and Conditions of Oak Tree Permit No. 86-312-(5). The permittee is authorized to remove oak trees within the project areas as necessary to conduct landfill operations authorized by this grant and subject to the requirements of Part VII of the Implementation and Monitoring Program attached to Oak Tree Permit 86-312-(5). Prior to approving any excavation of more than five acres containing significant stands of oak and/or Douglas fir trees, the Director of Public Works shall confer with the Los Angeles County Forester and Fire Warden.

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

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

Current Status/Comments – During the 4th Quarter, the City was proceeding with writing an ordinance to allow the wetlands and riparian mitigation to be created in the Chatsworth Reservoir. All environmental analysis has been completed. Republic stated that a change in City staffing has delayed the process of finalizing and adopting the ordinance. Time extension letters from the US Corps of Engineers and the California Department of Fish and Wildlife are in place for 2019. New extension letters will be needed in 2020.

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

Current Status/Comments – Throughout the 4th Quarter, the monitor drove San Fernando Road to Sierra Highway on each monitoring visit. This area is maintained by Republic and was clear of illegally-dumped debris and litter.

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 4th Quarter of 2019, the south oil field gate and north perimeter gate were observed to be closed and locked.

M-4.19.2(191) (City)

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

Ecological Significance 62 (County)

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

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

Summary of Requested Documents

Part I – Reports and Plans

Previously requested documents, reports and plans to be made available on site were reviewed in printed and electronic formats. The monitors verified the following to be available to the monitors and agencies' staff.

a) Current Fill Sequence Plan.

   Current Fill Sequence Plans are available electronically and are updated at least weekly.

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.

   These plans are electronically available onsite.

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

   Active City and County areas showing areas at final elevations were not observed. To date, no active areas have reached their final elevation. Trash elevations of inactive fill areas that have current or had prior stockpiled soil are not known.

d) The current erosion control plans.

   Current erosion control plans were available electronically.

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

   Site drainage plans were available electronically.

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.

   The plan was available electronically.

g) Comprehensive geotechnical reports.

   The reports were available electronically.

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.

   Printed copies were available.

Part II – Logs and Records

Previously requested logs, records, safety and procedural documents to be made available on site were reviewed in printed and electronic formats. The monitors verified the following to be available to the monitors and agencies' staff.

a) Refuse Inspection Program (random load checks for prohibited waste)
b) Hazardous Waste Load-Checking (flammable, corrosive and toxic waste)
c) Spill Response Program (spill prevention, control and clean up procedures)
d) Safety Inspections, Training and Checklists (for employees, contractors and vendors)
e) Accident/Injury reports, Inspections (records of accidents and injuries)
f) Personal Protective Equipment (including hard hats, safety vests and safety glasses)
g) Hazardous Waste Disposal (procedures for disposal of toxic, ignitable or reactive ingredients)
h) Hazardous Waste Procedures (procedures for handling toxic, ignitable or reactive ingredients)
i) Injury and Illness Prevention Program (procedures to ensure OSHA compliance with health and safety in the workplace)
j) Prohibited Waste Procedures (procedures for handling prohibited waste such as car batteries, used motor oil, tires and untreated medical waste)
k) Lockout, Tagout and Blackout Procedures (specific practices and procedures to safeguard employees from the unexpected energization or startup of machinery and equipment)
l) Accident Prevention Signs and Tags (included in the OSHA safety training for employees)
m) Fire Response Procedures (included in the OSHA safety training for employees)
n) Fire Hoses on Water Trucks (included in the OSHA safety training for employees)
o) Heat Stress Prevention (included in the OSHA safety training for employees)
p) Fire Extinguisher Training (included in the OSHA safety training for employees)
q) Emergency Response and Evacuation Plan (included in the OSHA safety training for employees)
r) Hearing Conservation (program designed to protect workers from hearing impairment)
s) Stormwater Pollution Prevention (a site-specific document that identifies all of the activities and conditions onsite that could cause water pollution, and the steps the facility will take to prevent such a discharge)
t) Confined Space Requirements (set requirements so employees have enough space to work, and systems to ensure limited or restricted means of entry or exit to confined spaces)

u) Adverse Weather (procedures for maintaining work safety during severe weather conditions)

v) Drug and Alcohol-Free Workplace Procedures (procedures committed to the elimination of drug and alcohol use and abuse in the workplace)

w) Bloodborne Pathogens (procedures to protect employees from infectious microorganisms in human blood that can cause disease in humans. These pathogens include hepatitis B (HBV), hepatitis C (HCV) and human immunodeficiency virus (HIV); needlesticks and other sharps-related injuries may expose workers to bloodborne pathogens)

x) Rollovers (procedures to help prevent truck and equipment rollovers; addresses poor driving conditions, speeding, driver fatigue and distracted driving; part of Republic's Focus 6 Program)

y) Asbestos Safety and Respiratory Protection (procedures to help prevent respiratory injury to employees; includes the use of respirators and specialized clothing)

z) Slips, Trips and Falls (procedures to help prevent slips, trips and falls; includes keeping walkways clear, use of handrails, use of proper footwear and managing power cords)

aa) Conduct Hazardous Assessment (identify hazards and risk factors that have the potential to cause harm)

bb) Industrial Truck Training (safety training for machines such as fork lifts and lift trucks; part of Republic's Focus 6 Program)

cc) Radiation Awareness (procedures and training to increase employee understanding of radiation and radioactivity, and how to manage encounters with radioactive materials)

dd) Hazardous Communication (physical and health hazards; a set of processes and procedures that employers must implement in the workplace to effectively communicate hazards associated with chemicals during handling, shipping, and any form of exposure)

Conclusions

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

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

The 2019 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
(10-01-2019 through 12-31-2019)

	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Third Quarter 2019															Fourth Quarter 2019											
					7/9/2019	Status*	Further Review Needed/Comments**	Resolved*	8/13/2019	Status*	Further Review Needed/Comments**	Resolved*	8/27/2019	Status*	Further Review Needed/Comments**	Resolved*	9/25/2019	Status*	Further Review Needed/Comments**	Resolved*	10/29/2019	Status*	Further Review Needed/Comments**	Resolved*	11/19/2019	Status*	Further Review Needed/Comments**	Resolved*	12/11/2019	Status*	Further Review Needed/Comments**	Resolved*
1	**Project Manager**																														
2																															
3																															
4	Q - A.3.		Definitions	info	/				/				/				/				/				/				/		
5	Q - A.6.		Submit Annual Reports	June yearly	/				/				/				/				/				/				/		
6	Q - A.10.		Provision of Fees	yearly	/				/				/				/				/				/				/		
7	Q - B.1.		Permitted/Prohibited Landfill Uses	yearly	/				/				/				/				/				/				/		
8	Q - B.2		Approval of Landfill	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
9	Q - B.2.c.		Ancillary Uses and Facilities	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
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	
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	
16	Q - C.3.g.		Paved Access Roads	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
17	Q - C.3.h.		Surfacing of Access Roads	ongoing	✓	C	I-i		✓	C	NONE		✓	C	NONE		✓	C	I-l		✓	C	NONE		✓	C	NONE		✓	C	I-0	
18	Q - C.5.		Graffiti Removal and Deterrence	ongoing	✓	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-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
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	/				/				/				/				/				/				/		

*** 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
(10-01-2019 through 12-31-2019)

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24	Q - C.12.c.		Contract for Mitigation Monitoring-5 years	info	/				/				/				/				/				/				/			
25																																
26	T - 4		Fire Plan	status	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
27	T - 5.j.		Trip Diversion	status	✓	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-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
31	M - 4.1.4	11	Post-5.0 Earthquake Analysis	upon event	✓	FRN	I-i		/	NA	NONE		/	NA	NONE		/	NA	NONE		✓	C	NONE		✓	C	NONE		✓	C	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	
33	M - 4.2.12		Heavy Equipment Operations	ongoing	✓	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-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
35	M - 4.2.12		Site Erosion-Cell Height	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
36	M - 4.2.12		Site Erosion-Sealant	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	NONE		✓	C	NONE		✓	C	NONE	
37	M - 4.2.13	29	LFG Control Measures	ongoing	/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o	
38	M - 4.2.13	30	Operational Odor Control Techniques	ongoing	/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o	
39	M - 4.2.13	31	Solid Waste Compaction	ongoing	✓	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-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o	
41	M - 4.2.13	33	Odor Control Measures	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	C	NONE		✓	C	NONE		✓	C	NONE	
42	M - 4.2.13	34	Odor/LFG Monitoring	ongoing	/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o	
43			Periodic LFG Monitoring		/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o	
44	M - 4.3.2	52	LFG Migration Mitigation	ongoing	/	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	
46	M - 4.4.2	69	Offsite Mitigation Sites	status	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	

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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	
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	
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	✓	C	I-i		✓	C	NONE		✓	FRN	I-k		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
56	M - 4.9.3	111	Radio Dispatch Litter Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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																																
65	**Civil & Geotechnical Engineer**																															
66																																
67																																
68	M - 4.1.1	2	Grading Outside of Conceptual Grading Plan Area	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	C	NONE		✓	C	NONE		✓	C	NONE	
69	M - 4.1.1	3	Unsuitable Material Removal/Buffer Zones	ongoing																												
70	M - 4.1.1	4	Grading Outside of Landfill Footprint	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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71	M - 4.1.1	5	Grading Activity Compliance	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	C	NONE		✓	C	NONE		✓	C	NONE	
72	M - 4.1.2	8	Landslide Guidelines	ongoing																											
73	M - 4.1.2	9	Soil Stabilization	ongoing																											
74	M - 4.1.4	10	Landfill Design	ongoing																											
75	M - 4.1.4	11	Earthquake Operations Checklist	upon event	✓	FRN	I-i		/	NA	NONE		/	NA	NONE		/	NA	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
76	M - 4.1.5	12	Geologic Hazards - Liquefaction	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	C	NONE		✓	C	NONE		✓	C	NONE	
77	M - 4.1.5	13	Design/Construction-Liquefaction	ongoing																											
78	M - 4.1.5	14	Design/Construction-Containment Structures	ongoing																											
79	M - 4.1.6	15	Refuse Slope Gradients	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
80	M - 4.1.6	16	Cut and Fill Slope Gradients	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
81	M - 4.1.6	17	Final Slope Factors of Safety	ongoing																											
82	M - 4.1.6	18	Survey Monuments	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
83	M - 4.3.2	47	Landfill Liner	ongoing																											
84	M - 4.3.2	48	Landfill Liner	ongoing																											
85	M - 4.3.2	54	Preliminary Closure/Postclosure Plan	status																											
86	M - 4.3.2	55	Landfill Design/Operation/Final Closure Monitoring	status																											
87	M - 4.3.2	56	Cover Application	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
88	M - 4.14.1	155	Access Roadway Grade	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
89	M - 4.18	178	Landfill Elevation Exceedance	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
90																															
91	**Hydrologist**																														
92																															
93																															
94	M - 4.1.4	11	Earthquake Operations Checklist	upon event	✓	FRN	I-i		/	NA	NONE		/	NA	NONE		/	NA	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
95	M - 4.3.1	36	Surface Water Infiltration Minimization	ongoing																											

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96	M - 4.3.1	37	Surface Drainage Systems	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	FRN	I-o	
97	M - 4.3.1	38	Permanent/Temporary Ditches	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	FRN	I-o	
98	M - 4.3.1	39	Drainage Protection	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	FRN	I-o	
99	M - 4.3.1	40	SWRCB Permit Coverage	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
100	M - 4.3.1	41	Surface Water Collection System	ongoing																											
101	M - 4.3.1	42	Surface Water Quality Monitoring	ongoing																											
102	M - 4.3.1	43	Sediment Basin Maintenance	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	C	I-m		✓	C	I-n		✓	FRN	I-o	
103	M - 4.3.1	44	Final Landfill Cover	ongoing																											
104	M - 4.3.1	45	Erosion Control Plan	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
105	M - 4.3.1	46	Preventive Maintenance Program	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
106	M - 4.3.2	49	Interception of Groundwater Seepage	ongoing																											
107	M - 4.3.2	50	LCRS/Leachate Monitoring	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
108	M - 4.3.2	51	LCRS Monitoring	ongoing																											
109																															
110	**Biologist**																														
111																															
112																															
113	M - 4.1.1	6	Slope Erosion Control	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
114	M - 4.2.11	23	Revegetation/Excavation	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
115	M - 4.2.12		Temporary Vegetation Cover	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
116	M - 4.4.1	60	Coastal Sage Scrub Mitigation Plan	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
117	M - 4.4.1	61	Coastal Sage Scrub Seeding	ongoing																											
118	M - 4.4.1	62	Mariposa Lily Mitigation Plan	ongoing	/				/				/				/				/				/				/		
119	M - 4.4.1	63	San Diego Horned Lizard Mitigation	ongoing	/				/				/				/				/				/				/		
120	M - 4.4.1	64	California Gnatcatcher Surveys	ongoing	/				/				/				/				/				/				/		

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121	M - 4.4.1	65	Least Bell's Vireo Surveys	ongoing	/				/				/				/				/				/				/			
122	M - 4.4.1	66	Western Burrowing Owl Surveys	ongoing	/				/				/				/				/				/				/			
123	M - 4.4.1	67	Migratory Bird Treaty Act	ongoing	/				/				/				/				/				/				/			
124	M - 4.4.1	68	Raptor Nests Habitat	ongoing	/				/				/				/				/				/				/			
125	M - 4.4.3	72	Native Tree Mitigation	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
126	M - 4.4.3	73	Nonnative Tree Mitigation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
127	M - 4.4.3	74	Mitigation Tree Planting	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
128	M - 4.4.3	75	Tree Planting Mitigation Site Prep	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
129	M - 4.4.3	76	Poultry Wire Screen	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
130	M - 4.4.3	77	Backfill Material	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
131	M - 4.4.3	78	Tree Planting Procedure	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
132	M - 4.4.3	79	Tree Area Mulching	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
133	M - 4.4.3	80	Tree Irrigation/Fertilization	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
134	M - 4.4.3	81	Irrigation System	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
135	M - 4.4.3	82	Annual Tree Monitoring Report	annual	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
136	M - 4.9.2	96	Vector Activity Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
137	M - 4.9.2	97	Vector Elimination	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
138	M - 4.9.2	98	Fly Control	ongoing																												
139	M - 4.9.2	99	Rodent Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
140	M - 4.9.2	100	Operational Vector-Limiting Activity	ongoing																												
141	M - 4.9.2	101	Equipment Cleanliness/Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
142	M - 4.9.2	102	Storage of Vector-Attracting Items	ongoing																												
143	M - 4.9.2	103	Salvaged Material Storage-Vector Control	ongoing																												
144	M - 4.9.2	104	Periodic Vector Inspections	ongoing																												

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145	M - 4.9.2	105	Implementation of Vector Control Measures	ongoing																									
146																													
147	**Air Quality & Noise Specialist**																												
148																													
149																													
150	M - 4.2.11	19	Emissions Mitigation Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
151	M - 4.2.11	19	Construction Curtailing due to Pollution	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE
152	M - 4.2.11	20	Dust Lofting Minimization	ongoing																									
153	M - 4.2.11	21	Wind Speed Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
154	M - 4.2.11	22	Grading-Dust Reduction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
155	M - 4.2.12	24	Construction Equipment Maintenance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
156	M - 4.2.12		Construction Curtailing due to Pollution	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE
157	M - 4.2.12	25	Refuse Trucks-Maintenance	ongoing																									
158	M - 4.2.12		Refuse Trucks-Engine	ongoing																									
159	M - 4.2.12		Refuse Trucks-Fee Schedule	ongoing																									
160	M - 4.2.12		Refuse Trucks-Fee Schedule Delivery Time	ongoing																									
161	M - 4.2.12		Refuse Trucks-Idling	ongoing																									
162	M - 4.2.12		Refuse Trucks-Emissions	ongoing																									
163	M - 4.2.12	26	Truck Travel and Fugitive Dust Emissions	ongoing																									
164	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																									
165	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																									
166	M - 4.2.12		Truck Travel and Fugitive Dust Emissions	ongoing																									
167	M - 4.5.2	83	Landfill Hours	info	/				/				/				/				/				/				/		
168	M - 4.5.2	84	Landfill Equipment-Noise Reduction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE
169																													

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170	**Hydrology, Hazardous Waste / Risk of Upset**																													
171																														
172																														
173	M - 4.3.2	53	Groundwater Monitoring Wells	ongoing																										
174	M - 4.3.2	58	Operation as Class III Landfill	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
175	M - 4.3.2	59	Underground Fuel Storage	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
176	M - 4.9.1	90	Refuse Inspection Program	ongoing																										
177	M - 4.9.1	91	Hazardous Waste Load-Checking	status																										
178	M - 4.9.1	93	Hazardous Waste Detection Training	status																										
179	M - 4.9.1	94	Spill Response Program	status																										
180	M - 4.9.4	115	Safety Inspections/Checklists	ongoing																										
181	M - 4.9.4	118	Accident/Injury reports, Inspections	status																										
182	M - 4.9.4	121	Fire Prevention Plan	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
183	M - 4.9.4	123	Personal Protective Equipment	ongoing																										
184	M - 4.9.4	125	Site Access/Fencing	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	NONE		✓	C	NONE		✓	C	NONE	
185	M - 4.14.1	147	Fire Response Capabilities	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
186	M - 4.14.1	148	Hydrant Installation	ongoing																										
187																														
188	**Archaeologist**																													
189																														
190																														
191	M - 4.19.1	183	Archaeological Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
192	M - 4.19.1	184	Onsite Archaeologist	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
193	M - 4.19.1	185	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
194	M - 4.19.1	186	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
195																														

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196	**Paleontologist**																														
197																															
198																															
199	M - 4.19.2	187	Paleontological Resources Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
200	M - 4.19.2	188	Paleontological Resources Excavation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
201	M - 4.19.2	189	Paleontological Resources Training	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
202	M - 4.19.2	190	Paleontological Resources Recovery	ongoing																											
203	M - 4.19.2	191	Paleontological Resources Inspection	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	

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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	
5	Amendment 45.N - 3	45N	Daily Cover Procedure	ongoing	✓	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-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o	
7	Amendment 45.N - 4.c	45N	Odor Patrol Program	ongoing	/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o	
8	Amendment 45.N - 4.d	45N	Landfill Gas Mitigation Plan	ongoing	/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o	
9	Amendment 45.N - 5	45N	Dust and Odor Reports	ongoing	/		I-i		/		I-j		/		I-k		/		I-l		/		I-m		/		I-n		/		I-o	
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	
15	Revegetation - 44.F	44.F	Revegetation	status	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
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	
17	Fugitive Dust - 45.F	45.F	Inactive Areas Monitoring	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
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	
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	
20	Gas - 52	52	Landfill Gas Collection System	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
21	Traffic - 57	57	Traffic Improvements	status	✓	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	
23	Traffic - 61	61	Traffic Minimization	ongoing	✓	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	/				/				/				/				/				/				/			

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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	
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	
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-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
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	
51	BIOTA – 4.07		Buffer Zone Maintenance-Vegetation	ongoing	✓	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	

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53	BIOTA – 4.47		Cleaning of Equipment	ongoing	✓	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	
56	BIOTA – 4.50		Vector Activity Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
57	Air Quality - 6.03		Dust Emission Minimization	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
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	
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	
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	
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	
74	Odor/Landfill Gas – 7.04		Gas Collection/Flare System Risk Mitigation	ongoing																											
75	Odor/Landfill Gas – 7.05		Wellhead Awareness	status	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	C	NONE		✓	C	NONE		✓	C	NONE	
76	Odor/Landfill Gas – 7.06		Odor Control Measures	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	C	NONE		✓	C	NONE		✓	C	NONE	
77	Odor/Landfill Gas – 7.07		Gas Recovery and Sale	status	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	

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78	Traffic/Circulation – 8.03		Street Light Installation	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
79	Traffic/Circulation – 8.04		Truck Traffic Minimization	status																											
80	Traffic/Circulation – 8.08		Tipping Fees for Partial Loads/Peak Hours	status																											
81	Traffic/Circulation – 8.10		Nighttime Landfill Operations Feasibility	status	/				/				/				/				/				/				/		
82	Traffic/Circulation – 8.11		Parking Management along San Fernando Road	status	/				/				/				/				/				/				/		
83	Traffic/Circulation – 8.13		Adequate Queuing	status																											
84	Visual – 10.03		Landfill Flare Locations	status	/				/				/				/				/				/				/		
85	Visual – 10.04		Confinement of Excavation Cover Material	status																											
86	Visual – 10.05		Lighting Requirements	status																											
87	Visual – 10.11		Litter Control Program	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	
89	Visual – 10.11		Debris Removal at Entrance	ongoing	✓	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	
91	Visual – 10.11		Periodic Litter Pickup	ongoing	✓	FRN	I-i		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
92	Visual – 10.11		Litter Control-Additional Measures	ongoing																											
93	Visual – 10.12		Discharge Control/Litter Recovery	status																											
94	Water Conserv. - 11.01		Water Conservation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
95	Recycling - 14.01		On-site Waste Diversion/Recycling	ongoing	✓	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	
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																											

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104	Landfill Operation - 18.7		Graffiti Removal/Deterrent Plan	ongoing	✓	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	
127																															
128	Geology - 1.01		Survey Monument Locations	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
129	Geology - 1.02		Seismic Design	ongoing																											
130	Geology - 1.03		Maximum Refuse Slope Gradients	ongoing																											
131	Geology - 1.04		Maximum Refuse Slope Gradients	ongoing																											
132	Geology - 1.05		Unsuitable Material Procedures	ongoing																											
133	Geology - 1.06		Grading Activities Procedures	ongoing																											
134	Geology - 1.07		Grading Activities Procedures	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
135	Geology - 1.09		Outer Perimeter Ridgeline Requirements	info																											
136	Geology - 1.12		Soil Stabilization	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
137	Geology - 1.16		Checklists/Surveys Following Earthquake	upon event	✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE	
138	Geology - 1.18		Alluvium-Removal/Replacement	ongoing																											
139	Geology - 1.19		Landfill Design/Construction	ongoing																											
140	Geology - 1.20		Landfill Design/Construction-Foundations	ongoing																											
141	Surface Water - 2.03		Surface Drainage Control Facilities	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
142	Surface Water - 2.05		Underdrain Requirements	ongoing																											
143	Surface Water - 2.06		Final Cover for Surface Water Runoff Control	ongoing																											
144	Groundwater - 3.02		Liner System Requirements	ongoing																											
145	Groundwater - 3.04		Onsite Inspector for Liner Installation	ongoing																											
146	Groundwater - 3.09		Alluvium Removal	ongoing																											
147	Visual – 10.01		Landfill Elevations	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	

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148	Visual – 10.02		Final Fill Elevations	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
149																																
150	**Hydrologist**																															
151																																
152																																
153	Grading & Drainage - 38	38	Installation of Drainage Structures	ongoing																												
154																																
155	Geology - 1.17		Landfill Design/Construction-Seismic	ongoing																												
156	Surface Water - 2.01		Surface Water Runoff Interception	ongoing																												
157	Surface Water - 2.02		Surface Water Runoff Collection	ongoing																												
158	Surface Water - 2.03		Surface Drainage Control-Maintenance	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
159	Surface Water - 2-04		Sedimentation Basin Capabilities	ongoing																												
160	Surface Water - 2.05		Underdrain Placement	ongoing																												
161	Surface Water - 2.07		Drainage Control System Design Approval	ongoing																												
162	Surface Water - 2.08		Surface Water Runoff-Drainage System	ongoing																												
163	Surface Water - 2.10		Surface Water Collection System-Monitoring	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
164	Surface Water - 2.11		Surface Water Quality-Collection/Monitoring	ongoing																												
165	Surface Water - 2.12		Permanent/Temporary Drainage Facilities	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
166	Surface Water - 2.13		Permanent/Temporary Drainage Facilities	ongoing																												
167	Surface Water - 2.14		Erosion Control Plan	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
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-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	

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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-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
181	Geology - 1.14		Personnel Retention for Monitoring Soil Erosion	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
182	Groundwater - 3.11		Irrigation/Revegetation Management-Personnel Retention	ongoing																												
183	BIOTA – 4.10		Oak Tree Permit	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
184	BIOTA – 4.11		Oak Tree Mitigation Plan	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
185	BIOTA – 4.13		Oak Tree Mitigation Counting	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
186	BIOTA – 4.20		Poultry Wire Screen	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
187	BIOTA – 4.24		Drip Irrigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
188	BIOTA – 4.27		Coastal Sage Scrub Mitigation Plan	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	
189	BIOTA – 4.28		Coastal Sage Scrub Seeding	ongoing																												
190	BIOTA – 4.29		San Diego Horned Lizard Mitigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
191	BIOTA – 4.30		California Gnatcatcher Surveys	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
192	BIOTA – 4.31		Least Bell's Vireo Surveys	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
193	BIOTA – 4.32		Western Burrowing Owl Surveys	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
194	BIOTA – 4.33		Migratory Bird Treaty Act	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
195	BIOTA – 4.34		Raptor Nests Habitat	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
196	BIOTA – 4.36		Personnel Retention for Monitoring Revegetation Plan	ongoing																												
197	BIOTA – 4.37		Personnel Retention for Monitoring Revegetation Plan, Onsite Plants	status																												
198	BIOTA – 4.38		Green Waste Material	ongoing																												
199	BIOTA – 4.39		Revegetation of Slopes/Fill Areas	ongoing																												
200	BIOTA – 4.41		Revegetation Plan-Replacement Cover	ongoing																												
201	BIOTA – 4.42		Interim Vegetation	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
202	BIOTA – 4.43		Replacement Riparian Habitat	status	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	FRN	I-m		✓	FRN	I-n		✓	FRN	I-o	

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203	Air Quality - 6.02		Dust Control	ongoing	✓	FRN	I-i		✓	FRN	I-j		✓	FRN	I-k		✓	FRN	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
204	Visual – 10.06		Upper Ridge Planting/Revegetation	ongoing																											
205	Visual – 10.07		Tree Planting Around Perimeter	ongoing																											
206	Visual – 10.08		Cover/Revegetation Requirements	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
207	Visual – 10.08		Solid Waste Disposal Procedures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
208	Visual – 10.08		Final Cut Slope Steepness	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
209	Visual – 10.08		Final Fill Slopes-Reclamation/Revegetation	status																											
210	Visual – 10.08		Revegetation Requirements	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
211	Visual – 10.09		Final Cover Composition Requirements	ongoing																											
212	Visual – 10.10		Buffer Zone Maintenance	ongoing	✓	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	
215																															
216	**Air Quality & Noise Specialist**																														
217																															
218																															
219	Fugitive Dust - 45.F	45.F	Fugitive Dust Monitoring	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
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	
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	
226	Air Quality – 6.01		Working Face Requirements	ongoing	✓	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	
228	Air Quality – 6.01		Soil Stockpile Requirements	ongoing	✓	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	

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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	
232	Air Quality – 6.01		Access Roads-Paving	ongoing	✓	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	
234	Air Quality – 6.01		Water Tanks/Piping Maintenance	ongoing	✓	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	
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	
244	Admin Rpts/ Pgms-17.16		Air Quality Monitoring-Corrective Action Plan	ongoing	/				/				/				/				/				/				/			
246																																
247	**Hydrology, Hazardous Waste / Risk of Upset**																															
248																																
249																																
250	IMP - Part IV.E	IMP4	Load Inspection-Random Manual	ongoing																												
251																																
252	Groundwater - 3.05		Leachate Collection and Removal System	ongoing																												
253	Groundwater - 3.15		Underground Diesel Fuel Storage Tanks	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
254	Fire Service - 12.02		On-site Fire Response Capabilities-Operating Equipment	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
255	Fire Service - 12.03		On-site Fire Response Capabilities-Roads/Water	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
256	Fire Service - 12.04		On-site Fuel Storage Tanks-Permit Issuance	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
257	Fire Service - 12.05		Building Limits	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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Sunshine Canyon Landfill County Mitigation Monitoring Summary
(10-01-2019 through 12-31-2019)

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Third Quarter 2019															Fourth Quarter 2019										
					7/9/2019	Status*	Further Review Needed/Comments**	Resolved*	8/13/2019	Status*	Further Review Needed/Comments**	Resolved*	8/27/2019	Status*	Further Review Needed/Comments**	Resolved*	9/25/2019	Status*	Further Review Needed/Comments**	Resolved*	10/29/2019	Status*	Further Review Needed/Comments**	Resolved*	11/19/2019	Status*	Further Review Needed/Comments**	Resolved*	12/11/2019	Status*	Further Review Needed/Comments**	Resolved*
258	Fire Service - 12.06		Methane Gas Monitoring-On-site Structures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
259	Hazardous Materials – 13.02		Waste Load Checking Program	ongoing																										
260	Hazardous Materials – 13.05		Hazardous Waste Disposal	ongoing																										
261	Hazardous Materials – 13.10		Hazardous Waste-Procedures	ongoing																										
262	Hazardous Materials – 13.11		Spill Response Program	ongoing																										
263	Safety - 16.02		Injury and Illness Prevention Program	status																										
264	Safety - 16.03		Working Conditions-Monitoring	status																										
265	Safety - 16.04		Inspection Checklist-Work Area Exposure	status																										
266	Safety - 16.07		Accident/Injury Reports	status																										
267	Safety - 16.08		First-aid Kits	ongoing																										
268	Safety - 16.10		Lockout/Blackout Procedures	status																										
269	Safety - 16.11		Personal Protective Equipment	status																										
270	Landfill Operation - 18.8		Prohibited Waste Procedures	ongoing																										
271																														
272	**Archaeologist**																													
273																														
274																														
275	Ecological Significance - 62	62	Archaeological/Paleontological Identification/Conservation Program	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
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	
277	Archaeological – 5.01		Archaeological Resurvey	ongoing	/	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	
279	Archaeological – 5.03		Onsite Paleontologist	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
280	Archaeological – 5.04		Archaeological/Paleontological Identification Instruction	ongoing	/	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	
282																														
283	**Paleontologist**																													
284																														

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Sunshine Canyon Landfill County Mitigation Monitoring Summary
(10-01-2019 through 12-31-2019)

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Third Quarter 2019																Fourth Quarter 2019											
					7/9/2019	Status*	Further Review Needed/Comments**	Resolved*	8/13/2019	Status*	Further Review Needed/Comments**	Resolved*	8/27/2019	Status*	Further Review Needed/Comments**	Resolved*	9/25/2019	Status*	Further Review Needed/Comments**	Resolved*	10/29/2019	Status*	Further Review Needed/Comments**	Resolved*	11/19/2019	Status*	Further Review Needed/Comments**	Resolved*	12/11/2019	Status*	Further Review Needed/Comments**	Resolved*
285																																
286	Ecological Significance - 62	62	Archaeological/Paleontological -Material Identification/Conservation	ongoing	✓	C	I-i		✓	C	I-j		✓	C	I-k		✓	C	I-l		✓	C	I-m		✓	C	I-n		✓	C	I-o	
287	IMP - Part VII.B	IMP7	Archaeological/Paleontological-Report Submission	ongoing																												

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Appendix I
Further Review Needed Comments: Reference I-m through I-o
Fourth Quarter 2019 Site Visits

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	Q – B.2.c		City Planning	I-m through I-o: There was no grading outside of the approved landfill development limits during the 4th Quarter except for CC-4 Part 3 drainage system and Flare 3 access road. Cell CC-4 Part 3 was accepting waste. There was grading and excavation occurring in all areas of the prior closed City landfill, the current landfill, and native areas to repair damage from the Saddleridge Fire. Cover material was being moved from the County top deck for CC-4 Part 1/2 and Part 3.
		Geology - 1.07	County DPW EPD/SCL-LEA	I-m through I-o: See Q – B.2.c above.
		Geology - 1.12	County DPW EPD/SCL-LEA	I-m through I-o: See Q – B.2.c above.
	Q - C.3.h		City Planning	I-o: In December, mid-day disposal trucks that were using dirt roads near the County Bowl area created dust clouds. The frequency of the water trucks was not adequate. The dirt entrance road to CC-4 Part 3 was not being watered and dust clouds were observed.
	Q - C.10.c		City Planning	I-m: The gas-to-energy plant was using 8110 SCFM of recovered landfill gas, 42% CH4, 1.0% O2, 78 ppm H2S. Flare 1: shut down; Flare 3: shut down; Flare 9: 2670 SCFM; Flare 10: 2485 SCFM; Flare 11: 3026. The total volume of landfill gas being recovered was 16,291 SCFM. I-n: The gas-to-energy plant was using 9099 SCFM of recovered landfill gas, 45% CH4, 2.0%, 97 ppm H2S. Flare 1: 2200 SCFM; Flare 3: not accessible; Flare 9: down for maintenance; Flare 10: 2936 SCFM; Flare 11: 2807 SCFM. The total volume of landfill gas being recovered was 17,042 SCFM. I-o: The gas-to-energy plant was not operating. The gas quality being recovered was 42% CH4, 0.6% O2, 97 ppm H2S. Flare 1: 2141 SCFM; Flare 3: not accessible and not operating; Flare 9: 4148 SCFM; Flare 10: 3841 SCFM; Flare 11: 4885 SCFM. The total volume of landfill gas being recovered was 15,015 SCFM. I-m through I-o: The quantity of landfill gas being recovered during the 4th Quarter has a daily average of 16,116 SCFM, with the gas-to-energy plant usage averaging 8604 SCFM. An expansion of the gas-to-energy plant or different beneficial-use facility should be evaluated.
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-m through I-o: See Q - C.10.c above.
		Gas - 52	County DPW EPD/SCL-LEA County Forester Fire Warden	I-m through I-o: See Q - C.10.c above.
	T-4		City Planning, City Fire Department	I-m through I-o: 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. Key management personnel contacts should be provided to the City Fire Department.
		Fire Service - 12.03	County DPW EPD/SCL-LEA County Forester Fire Warden	I-m through I-o: See T-4 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	M - 4.1.1 / 7		City Planning, DOGGR	I-m through I-o: The old abandoned oil well casing adjacent to the new secondary access road from the Flare 11 site was not reabandoned. An evaluation of the need to reabandon this well should be done. This well was not leaking oil or gas, and did not pose a current hazard. It is well beyond the approved landfill limits.
		Re-abandonment Procedures	County Planning, County DPW EPD/SCL-LEA, DOGGR	I-m through I-o: See M - 4.1.1 / 7 above.
	M - 4.1.4 / 11	Post-5.0 Earthquake Analysis	City Planning	There were no earthquakes during this monitoring period.
	M - 4.2.12 / 26 and 28		City Planning/SCAQMD	I-m through I-o: During the 4th Quarter, Closure Turf was being maintained and gas and liquids recovery systems under the turf were performing well. This cover material was in lieu of vegetation on the south-facing slopes, and controlled and eliminated dust and erosion. Other areas of the landfill were also hydroseeded. Areas affected by the Saddleridge fire were also hydroseeded except for the sage mitigation decks and slopes. The soil stockpiled on the County top deck was being used for daily cover.
		Fugitive Dust - 45.F	County DPH/County LEA County DPW-EPD County Biologist	I-m through I-o: See M - 4.2.12 / 28 above.
	M -4.2.13/ 29, 30, 32, 33, and 34		City Planning/SCL-LEA/SCAQMD	I-m through I-o: 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-m through I-o: See M -4.2.13/ 29, 30, 32, 34 above.
		Amendment 45.N-5	County DPW-EPD	I-m through I-o: See M -4.2.13/ 29, 30, 32, 34 above.
	M - 4.2.13 / 33		City Planning/SCAQMD	I-m: The monitor drove the Granada Hills neighborhood area from 6:15 to 7:00 a.m. and there were no landfill odors detected. Access to many areas of the landfill was restricted due to construction repairs to the gas and liquids recovery systems. I-n: The monitor drove the Granada Hills neighborhood areas from 6:30 to 7:00 a.m. and there were no landfill odors detected. Repairs to the gas and liquids recovery and handling systems were ongoing. Numerous areas were restricted due to ongoing construction to repair fire damage. I-o: The monitor drove the neighborhood and school areas from 6:20 to 7:00 a.m. and there were no landfill odors detected. There were no areas of localized odors detected coming from the landfill or recovery systems during the monitoring. I-m through I-o: The use of Closure Turf to seal fill areas and function as intermediate cover provided enhanced gas recovery and gas-related odor control. No areas of the Closure Turf were impacted by the fire.
	M - 4.2.13 / 34		City Planning/SCAQMD	I-m through I-o: See M-4.2.13/29, 30, and 32 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-m through I-o: See M-4.2.13/33 above.
		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-m through I-o: See M-4.2.13/29, 30, 32, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-m through I-o: See M-4.2.13/29, 30, 32, and 34 above.
		Surface Water - 2.15	County DPW EPD/ LARWQCB, SCL- LEA	I-m through I-o: 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 have been reviewed and are available at the landfill's main office. Installation of new westside permanent and temporary concrete drainage channels were completed. A new concrete outlet was installed at Basin A and tied in to the new channel. The lined basin in CC-4 Part 3 functioned well during the recent rain events. Water was being pumped out to the westside channel system. An outlet riser was installed at the CC-3B basin along with improvements to the channel to the riser. The terminal basin had the skimmer system repaired and operational. The high-flow spillway for Basin D into the westside drainage has cracks and spalling that was previously noted and not repaired. The Basin B high-flow spillway has cracks in multiple places that were not yet repaired. The terminal basin has vegetation growing out of cracks in the interior concrete sidewalls.
	M - 4.4.2/ 69		City Planning	I-m through I-o: The City is proceeding with writing an ordinance to allow the wetlands and riparian mitigation to be created in the Chatsworth Reservoir. All environmental analysis has been completed. Republic stated that a change in City staffing has delayed the process of finalizing and adopting the ordinance. Time extension letters from the US Corps of Engineers and the California Department of Fish and Wildlife are in place for 2019. New extension letters will be needed in 2020.
		Biota - 4.4.3	CDFW	I-m through I-o: See M - 4.4.2 / 69 above.
	M - 4.9.3 / 110		City Planning/City LEA	I-m through I-o: The monitor drove San Fernando Road to Sierra Highway on each monitoring visit. This area is maintained by Republic and was clear of illegally dumped debris and litter.
Civil and Geotechnical Engineer	M - 4.1.1 / 2		City Building and Safety City Planning	I-m through I-o: See M - 4.1.1 / 5 below.

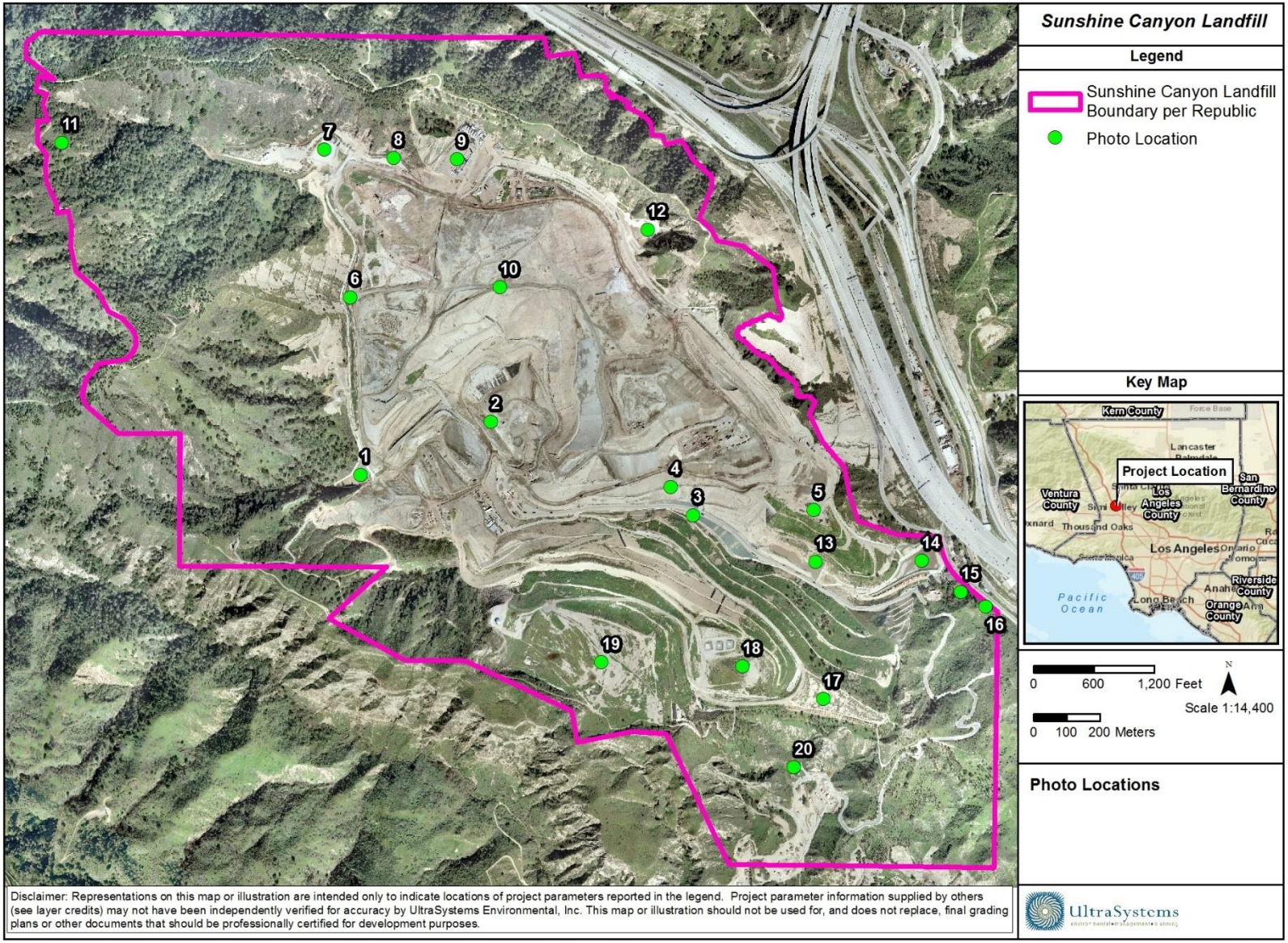
Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Civil and Geotechnical Engineer	M - 4.1.1 / 4		City Planning/LARWQCB Cal Recycle	I-m through I-o: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-m through I-o: The only out-of-approved landfill footprint grading occurring in the 4th Quarter was related to the approved CC-4 Part 3 buttress-related drainage systems and the access road to Flare 3. The only other grading occurring was for additional filling areas for CC-4 Part 1/2 in the bowl area, removal of stockpiled soils for cover, and grooming of slopes. These activities are inside the approved landfill footprint.
		Geology - 1.07	County DPW EPD/ County LEA	I-m through I-o: See M - 4.1.1 / 5 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-m through I-o: See M - 4.1.1 / 5 above.
	M - 4.1.6 / 18			I-m through I-o: 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 related projects are completed.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADBS City LEA	I-m through I-o: Access roads were being maintained around the working area for emergency access.
	M - 4.18 / 178		City Planning/City LEA	I-m through I-o: 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-m through I-o: See M - 4.18 / 178 above.
Hydrologist	M - 4.3.1/ 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-m and I-o: 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. Straw wattle were placed on the CC-4 Part 1/2 western and southern facing slopes. Other areas had jute netting or were hydroseeded. Erosion protection systems were in place. I-o: Some gullies and ruts were observed on the slopes above the CC-4 Part 3 basin. The slopes in the County sage mitigation area had a minor increase in the erosion rills.
		Surface Water - 2.03 Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-m through I-o: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-m through I-o: See M - 4.3.1/ 37, 38 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Hydrologist	M - 4.3.1 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-m through I-o: See M - 4.3.1/ 37, 38 above.
	M - 4.3.1 / 43		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-m: Basin A was dry and all sediment was removed. The concrete westside channel and Basin A outlet channel were installed. Repairs to the fire-damaged gas mainline to Flare 3 were ongoing. The basin was ready for winter rain events. Basin B was dry and all sediment was removed. The basin was ready for winter rain events. Basin D was dry and had no sediment. Basin CC-4 Part 3 was dry and had no sediment. Basin CC-3B was dry and had construction ongoing to improve the drainage channel and the employee access road to the Old City North top deck. Completion was scheduled for the end of November. The terminal Basin had all the sediment removed. There was some standing water from the fire fighting. All basins were ready for winter rain events. I-o: Basin A, B, CC-4 Parts and CC-3B have some sediment and standing water from the December rain events. The terminal basin had a significant amount of sediment and standing water east of the gabion wall from those rain events.
		Surface Water - 2.10	LARWQCB / County DPW EPD	I-m through I-o: See M - 4.3.1/ 37, 38 and 43 above.
		Surface Water - 2.14	LARWQCB / County DPW EPD	I-m through I-o: 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-m through I-o: See 2.15 above.
Biologist	M - 4.3.2 / 50		City Planning/ LARWQCB CalRecycle SCL-LEA	I-m through I-o: The old City north top deck has a tank farm of 16 Alder storage tanks for processing recovered leachate and condensate, with a double-wall pipeline to the sewer connection at the entrance near San Fernando Road. This system operated with no odors detected at the tank farm or the sewer connection. Tank farm liquids were being treated with hydrogen peroxide.
	M - 4.1.1 / 6		City Planning/ LARWQCB CalRecycle SCL-LEA LADBS	I-m through I-o: See M - 4.2.12 / 28 above.
		Geology - 1.14	LARWQCB/ County Forester	I-m through I-o: See M - 4.2.12 / 28 above.
	M - 4.2.11 / 23		City Planning	I-m through I-o: See M - 4.2.12 / 28 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-m through I-o: See M - 4.2.12 / 28 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Biologist	M - 4.2.12		SCL-LEA/ City Planning	I-m through I-o: See M - 4.2.12 / 28 above.
		Revegetation - 44.A	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-m through I-o: See M - 4.2.12 / 28 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-m through I-o: See M - 4.2.12 / 28 above.
		Biota - 4.42	SCL-LEA	I-m through I-o: See M - 4.2.12 / 28 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-m through I-o: See M - 4.2.12 / 28 above.
		Visual - 10.08	County Forester	I-m through I-o: See M - 4.2.12 / 28 above.
	M - 4.4.1 / 60		City Planning	I-m: The monitor drove the oil field access road to monitor impacts from the Saddleridge Fire. The hillsides adjacent to the road were burned by the fire. The mitigation oak trees south of the oil field road were burned, but most will likely recover. The oil field was not burned, but some adjacent slopes to the east were. The south perimeter gate was locked and vegetation was burned to the southern boundary of the property. City decks A, B and C, and the Old City South landfill were access-restricted because of fire recovery work and were not monitored. The County sage mitigation slopes did not burn and were doing well. The area north of the slopes burned near P-205R. The Big Cone Fir mitigation area was access-restricted due to downed powerlines. I-n: Access was restricted to all site mitigation areas due to construction activity in order to repair fire damage to facilities. I-o: The Deck A native vegetation was totally burned by the fire. Plans to promote regrowth should be developed. The Deck B sage mitigation area was totally burned by the fire. Recovery plans should be developed and implemented. The Deck C sage mitigation area was totally burned and all of the PM-10 Oak trees were scorched by the fire. Some trees were badly burned. Recovery activity plans need to be developed and implemented. Some PM-10 Oak trees may not recover.
		Biota - 4.27	County LEA/CDFW	I-m through I-o: See M - 4.4.1 / 60 above.
		Biota - 4.10	County LEA/CDFW	I-m through I-o: An updated mitigation tree report was completed, showing the number and type of mitigation trees required to be planted. A schedule for planting has not been prepared.
	M - 4.4.3 / 72		City Planning	I-m through I-o: See Biota - 4.10 above.
	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-m through I-o: See T-4 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference #/ Mitigation #	Responsible Agency	Further Review Needed – Comments
Biologist	M-4.9.4/ 125		City Planning/ CalRecycle Cal OSHA SCL-LEA	I-m through I-o: Throughout the 4th Quarter of 2019, the south oil field gate and north perimeter gate were observed to be locked.
Paleontologist	M-4.19.2/ 191		City Planning	I-m through I-o: 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-m through I-o: See M-4.19.2/ 191 above.

Appendix II
Relevant Site Photos



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November 13, 2017
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Photo 29: CC-4 Parts 1&2: November 19, 2019

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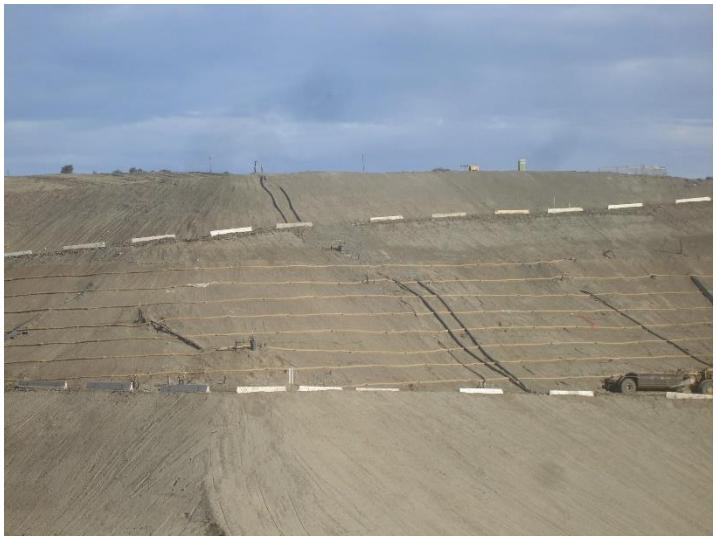

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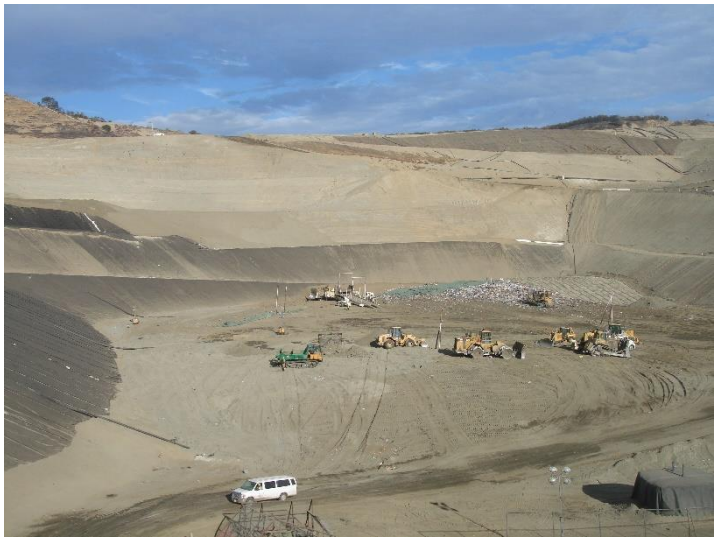

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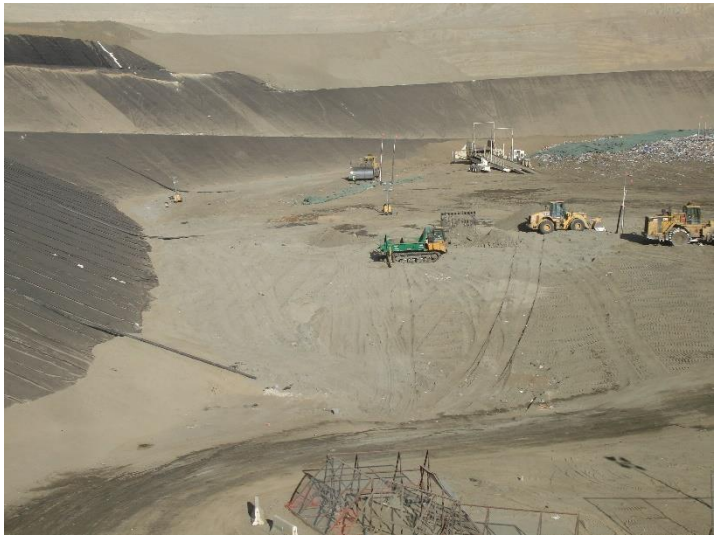

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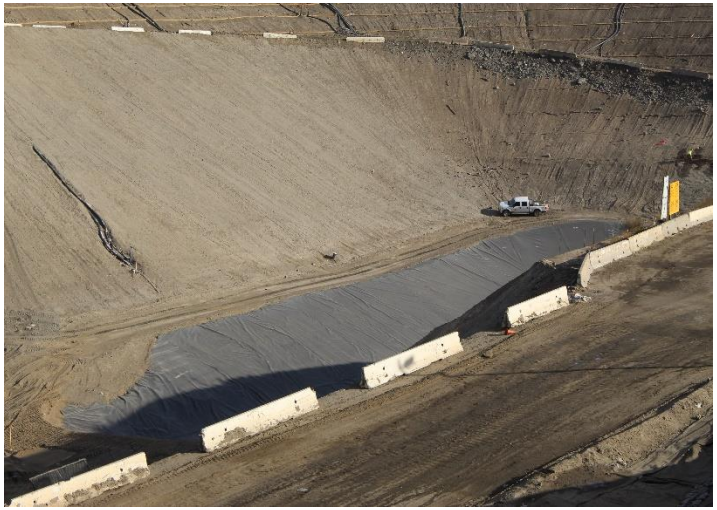

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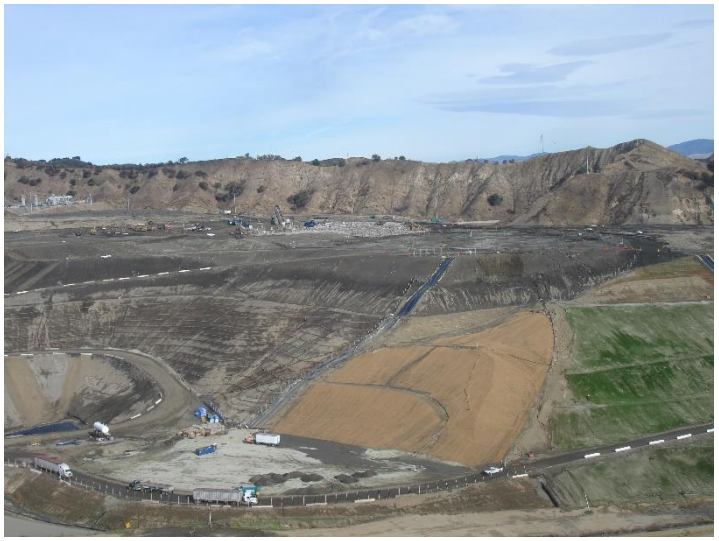

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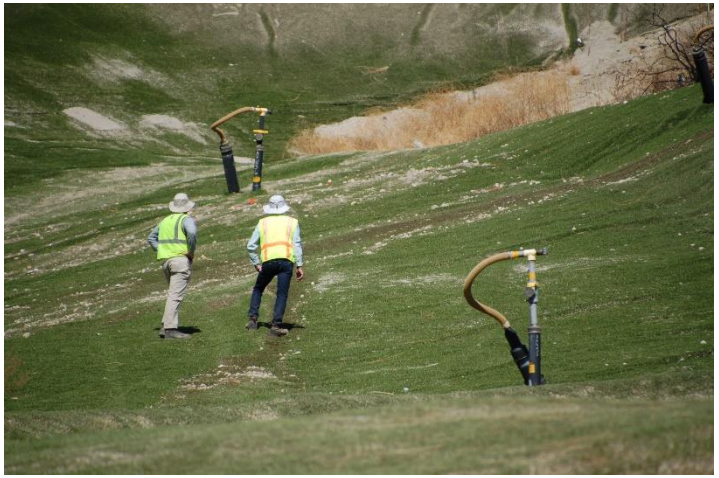

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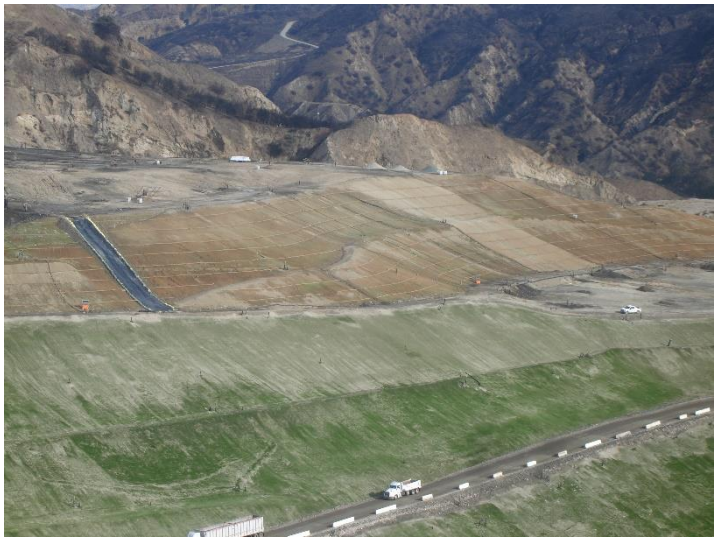

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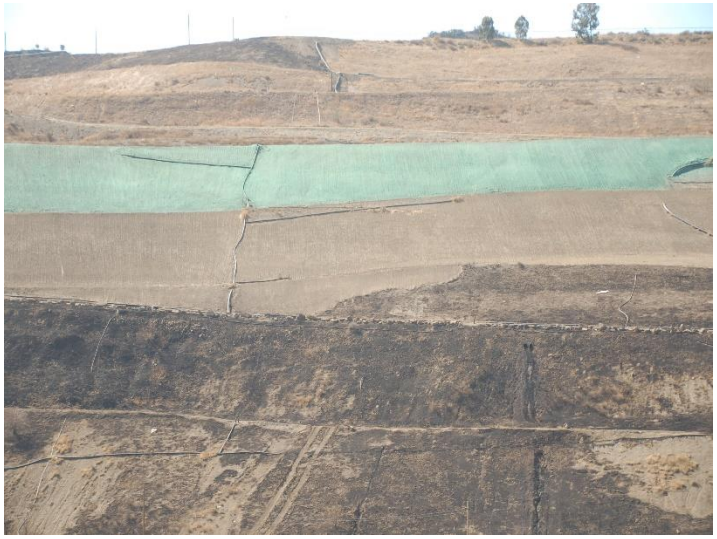

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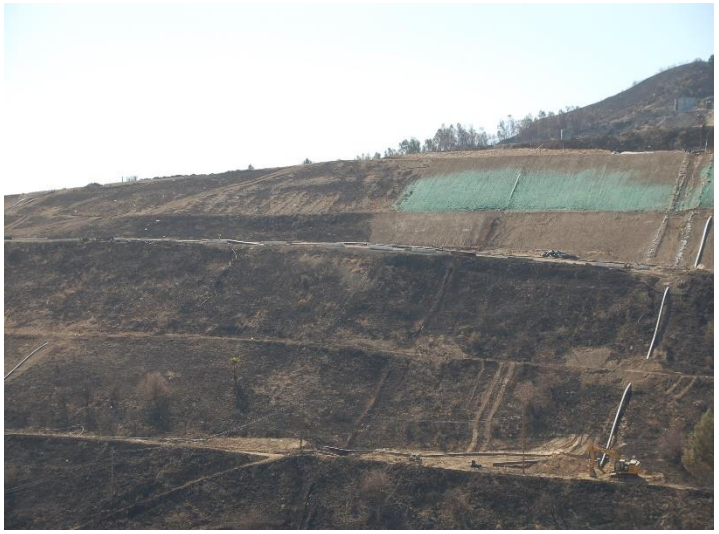

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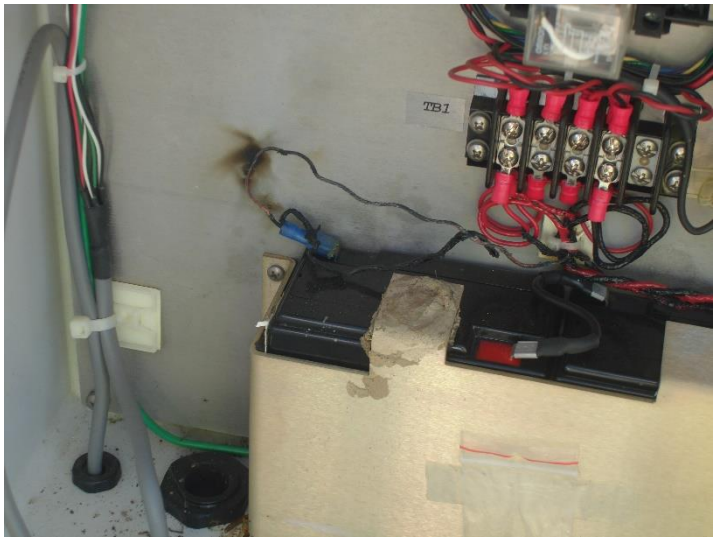

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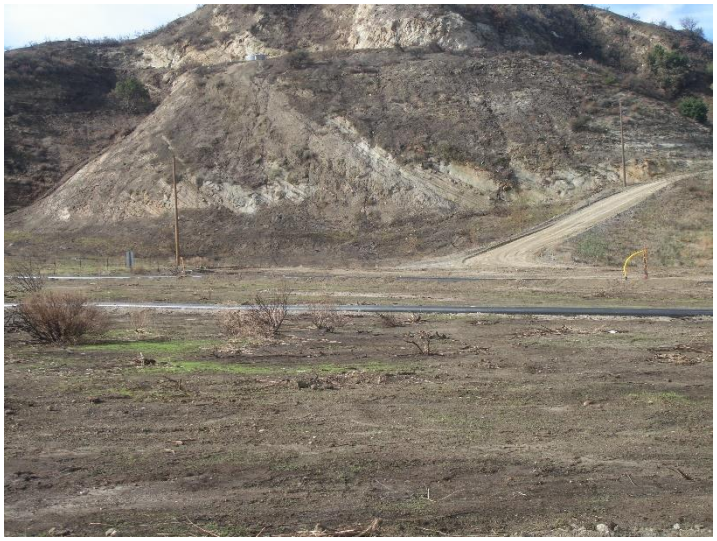

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Photo 396: Site: November 19, 2019

Photo 397: Site: November 19, 2019

Photo 398: Site: November 19, 2019

Photo 399: Site: November 19, 2019

Photo 400: Site: November 19, 2019

Photo 401: Site: November 19, 2019

Photo 402: Site: November 19, 2019

Photo 403: Site: November 19, 2019

Photo 404: Site: November 19, 2019

Photo 405: Site: December 11, 2019

Photo 406: Site: December 11, 2019

Photo 407: Site: December 11, 2019

Photo 408: Site: December 11, 2019

Photo 409: Site: December 11, 2019

Photo 410: Site: December 11, 2019

Appendix III

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

UltraSystems Staff	**Fields of Expertise:**
James Aidukas	Project Manager, Permitting and Operations/ Engineer
Mike Lindsay	Air Quality, Noise, Vehicle Emissions, Environmental Specialist/ Engineer
Michelle Tollett	Biology
SLR Staff	**Fields of Expertise:**
Tarik Hadj-Hamou	Geotechnical, Civil and Landfill Design/ Engineer

October Site Visits

October 29, 2019:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

Tarik Hadj-Hamou (SLR)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 10/29/19
Site Conditions: Cloudy 50-75˚ F, 0-10 MPH winds	

SITE LOG

Republic General Manager - Chris Coyle

Met with Mike Lindsay (UltraSystems), Tarik Hadj-Hamou (SLR), and Tim Stapleton (LACDRP.) We signed in at the office, and had a brief discussion with Thoug-Phu Ngo (Republic) concerning the repair of fire damaged systems. We then proceeded to monitor the site and observed the following:

- Drove the oil field access road. The adjacent hillsides were burned by the Saddleridge Fire. The mitigation oak trees south of the oil field road were burned, but most will likely recover. The oil field was not burnt, but some adjacent slopes to the east were. The south perimeter gate was locked and vegetation was burnt to the southern boundary of the property. The majority of the oil wells' pumping jacks were operating. The oil field flare was operating.
- Drove to the office and met with Gabriel Esparza and Mike Harmon (LACDPW) who joined us for site monitoring.
- Dave Thompson (City LEA) joined us to view and discuss CC-4 Part 3 liner inspection, fire impacts, and current restricted areas.
- CC-4 Part 3 liner was inspected by UEI and results agreed with prior findings that the fire did not affect the liner.
- Waste was being placed in the CC-4 Part 1/2 County bowl area and in CC-4 Part 3. Early morning waste was placed in CC-4 Part 3.
- The new permanent and temporary concrete westside drainage channel was completed.
- The Basin A concrete outlet channel was installed.
- Basin A was cleared of sediment and ready for winter rains.
- The native vegetation slopes on both sides of Basin A burned.
- A new 12" HDPE gas recovery pipeline was installed to Flare 3. Evidence of the fire melting the previous pipeline was seen on Basin A's concrete side walls.
- The Edison power to Flare 3 was not yet restored due to downed power lines and poles.
- The County sage mitigation slopes did not burn and were doing well. The area north of the slopes burned near P-205R. The lack of vegetation in this area exposed six to seven 2" steel probes. The purpose of these probes is not known.
- The County top deck was in good condition. It had stockpile areas of wet weather rock and asphalt and HDPE pipe. The CC-4 Part 3 buttress soil stockpile was nearly gone.
- Basin B was clear of sediment and ready for the winter rains.
- The terminal basin was clear of sediment. It had standing water in the basin, possibly from firefighter efforts.

Page 2 of 2, 10/29/19:

- There was an old weather station on the east side of the Old City North area with burnt wires. Republic advised that this station was previously abandoned.

Flare Operating Conditions:

- Flare 1 - Flare was down due to fire impacts.
- Flare 3 - Flare was down due to fire impacts.
- Flare 9 - 1705˚F, 2670 SCFM, -53.21 vacuum, 32.23" out
- Flare 10 - 1654˚F, 2485 SCFM
- Flare 11 - 1655˚F, 3026 SCFM

The gas-to-energy plant was using 8,110 SCFM of recovered landfill gas, 42% CH_4, 1.0% O_2, 78 ppm H_2S. Total gas volume recovered was 16,291 SCFM.

FURTHER REVIEW NEEDED
COMMENTS
Signed:

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 10-29-2019 Tuesday
Site Conditions: Clear, 53–73 °F, 1–8 mph, 23% RH	

SITE LOG

1. Met with Jim Aidukas and Tarik Hadj-Hamou (UltraSystems), and checked into office and with Tuong-phu Ngo (Republic).
2. Met with Tim Stapleton (LAC DRP).
3. Oil field flare is operating, with most pumping jacks online.
4. Oil field perimeter gate is closed and locked, with vegetation burned back by the Saddleridge Fire on October 10, 2019.
5. Met with Dave Thompson (LA City LEA), and discussed fire impacts at the landfill.
6. Met with Gabriel Esparza and Mike Harmon (LAC DPW).
7. The new working area at Cell CC-4 Part 3 is in good order, including traffic controllers and water trucks for odor and dust control. ADC is 85% covered with new trash at 10:00 AM.
8. Observed new liner tie-in on north slope of Cell CC-4 Part 3, including tie-in trenches being completed.
9. Sediment basin A is clear of soil. Adjacent gas header pipe melted due to the recent fire. The pipe has been replaced, including concrete forms for pouring new pipe supports.
10. The new westside drainage channel has been tied into the sediment basin A outlet channel.
11. The County sage mitigation area has been partially burned on the north side, with the south side still intact.
12. The southern hillside adjacent to the storage yard has been burned, but the oak trees have survived the fire for the most part.
13. A localized landfill gas odor is present by the main roadside header pipe north of the County sage mitigation area at 11:15 AM.
14. Water trucks are applying water throughout site for dust control.
15. Flare 9 is operating at 2870 scfm, 1699 °F. Gas sample measured at 42 % Vol. CH4, 1.0 % Vol. O2, 78 ppm H2S and 218 ppm CO. Gas inlet temperature is 138 °F
16. Flare 10 is operating at 2507 scfm, 1646 °F.
17. Flare 11 is operating at 3033 scfm, 1644 °F.
18. Sediment basin B has been cleared of soil.
19. Localized landfill gas odors are present south of sediment basin B at 12:00 PM.
20. Observed burned hillsides adjacent to the terminal basin.
21. Scrappers are dropping soil onto the old City north top deck.
22. Traffic spotters are onsite to control traffic.
23. Weather station at City north has damaged electrical cables due to fire.
24. Observed closure turf at east edge of fire perimeter, with no damage found.
25. Trash pickers are collecting windblown trash at the low-point drainage by haul road.
26. Terminal basin has been cleared of soil, with skimmer system put back in place. A water truck is pumping water from the basin for dust control use.
27. Street sweepers are cleaning the haul roads.
28. Could not observe Flare 1 or City decks A, B or C sage mitigation areas due to post-fire repairs

currently underway. 29. Met with Tuong-phu Ngo and Dennis Montano (Republic), and discussed our site monitoring observations.
FURTHER REVIEW NEEDED
1. Eliminate gas odors from header pipe along haul road at County sage mitigation slopes. 2. Eliminate gas odors from area south of sediment basin B. 3. Repair weather station cables at City north top deck.
Signed: Michael W. Lindsay

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SUNSHINE CANYON LANDFILL

MITIGATION MONITORING
SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 9
Discipline: Civil – Geotechnical and Hydrology	Date: October 29, 2019
Site Conditions: Sunny and warm	
SITE LOG	

7:00 – 8:00

- 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.
- Sign-up at landfill
- Meet with Tim Stapleton (LAC DRP), Dave Thompson (LA City LEA) < did not ride along with us>, Gabriel Esparza (LAC DPW), and Mike Harmon (LAC DPW)
- Discuss inspection process namely touring the areas affect by the Saddleridge fire

8:00– 2:30 Site inspection

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

Access Roads Including Oil Road.

- Main access road: No stability concerns
- Access road to administration pad – no additional depression/settlement observed on slope
- Oil Road. The access road to the oil field was in good shape although vegetation and trees on both sides have been seriously damaged by the fire (Photo 1)

Waste Placement

- two waste face was were active in Cells CC3/CC4.
- Tilters were set-up on top of Cell CC4 – (Top of Photo 2)
- Regular trucks were dumping on the floor of the new cell CC4 Phase 3 (bottom of Photo 2)

Drainage System

- Terminal Basin (Photo 3)
  - Basin is essentially clean
  - The sediments accumulated behind the decant towers will not impact he performance
  - There is water accumulated behind the gabion wall. Note that the gabion wall id totally silted and does not allow flow of water. It is not a problem as the purpose of the wall was to control sediment deposition within the basin and protect the decant towers
- Cell CC3 Earthen basin
  - The basin has been regraded cleaned and available for storage

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• East portion of the perimeter channel between Basin B and Terminal basin – Sediments and some detritus that had accumulated at the location of the asphalt berm have been removed (Photo 4) • Basin B – Basin empty of water and the pile of sediments noted during the last visit has been removed (Photo 5). • Basin D – Basin is clean and available for water storage – The maintenance issues noted during the previous visit still need to be addressed: ✓ Gap between the shotcrete and the soil at the spillway which may cause problem is additional undermining occurs. ✓ Vegetation growing through crack in downstream side of spillway ✓ Safety bars are missing on top of the decant towers • Ditch along access road to Flare 9-11 – The drain at the end of the concrete on side of road is plugged by sediments. • Basin A – The sediments gathered in the middle of the basin and observed during last visit have been removed and the basin is empty removal (Photo 6) – Sediments have accumulated against the rock placed around the decant towers. These sediments may hamper the flow of water out of the basin (Photo 7). – The connection between the basin and the new drainage channel on the west side of the landfill (Photo 8) has been reinstated (Photo 9) – Residue of the melted LFG header can be seen on the wall of the basin • Perimeter Channel between Basin A and Basin D – Channel in very good shape and clean, no vegetation and no cracks • Channel along the main access road – Clean • Basin at Cell CC4 Phase 3 – A geosynthetics lined temporary basin has been installed in the southeast corner of the cell (Photo 10)
Cell 4 Phase 3 Fire damage • We inspected the liner installed between on the slope and we did not see any sign of damage that could have been caused by the fire such as flying ambers landing on the geosynthetics.
Cell 4 Phase 3 Liner • Liner system was being deployed on the upper benches (Photo 11) • Protective soil is placed all over the floor and partially up the slope protecting the liner system • The gabion system for LFG/leachate collection was protected by a geotextile (Photo 12)
Erosion Protection Systems • No changes since the last visit in May 2019, systems are in place.
Landfill for geotechnical and hydrological issues • No fissures or cracks were observed in any of the slope or roads
Other Observations • Wall along San Fernando Road – No changes since last visit. drainage swale partially full of sediments • No odor detected outside of landfill • No illegal dumping along Sierra Highway

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Close-out meeting with Republic Staff representative to discuss findings of visit
FURTHER REVIEW NEEDED
• None
COMMENTS
• None
Signed:

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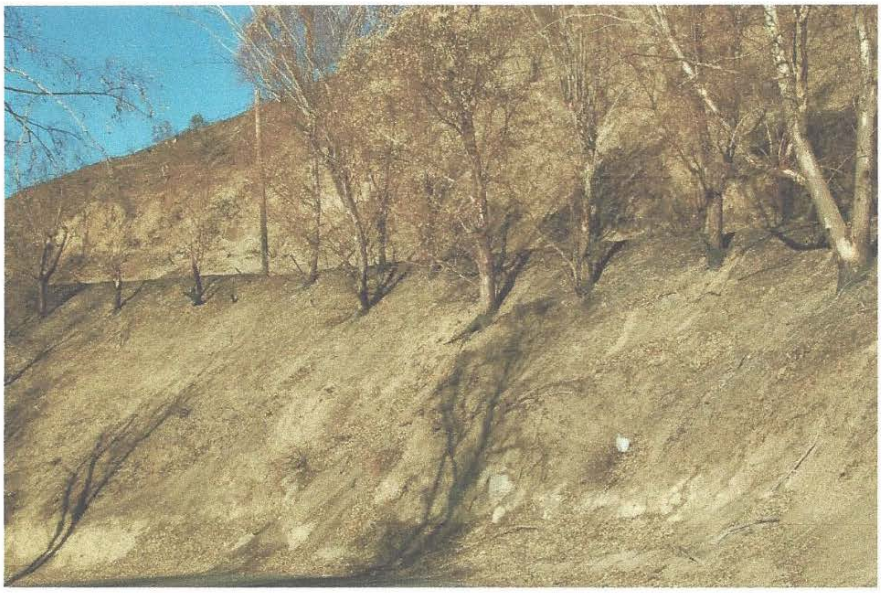

Photo 1: Fire damage on the slopes along oilfield road

Photo 2: Waste disposal at Cell CC4

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Photo 3: Overall view of the Terminal Basin

Photo 4: Clean channel connecting to the Terminal Basin

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Photo 5: Clean Basin B

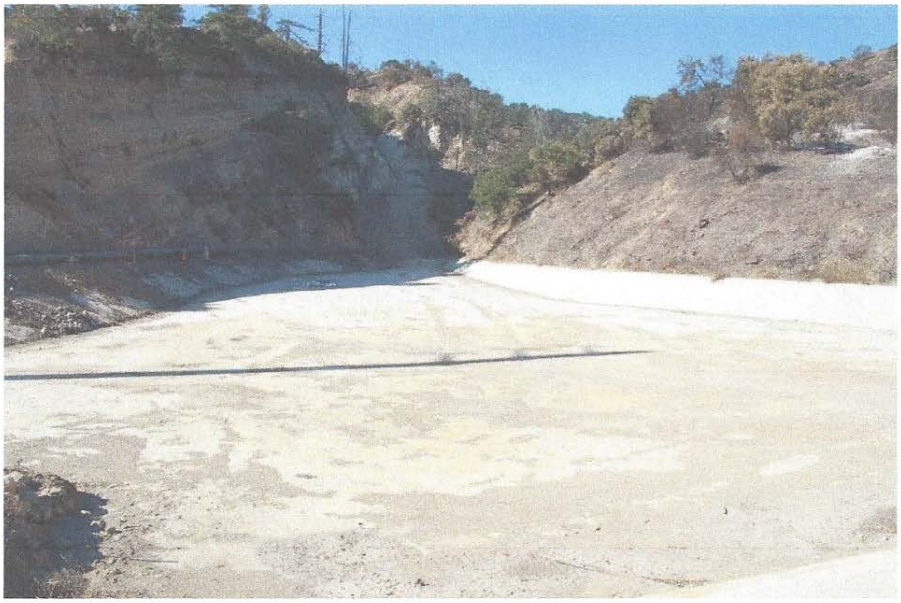

Photo 6: Clean Basin A

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Photo 7: Sediments against rock around the decant towers at Basin A

Photo 8: New west channel

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Photo 9: Outlet at Basin A

Photo 10: Temporary lined basin at Cell CC4 – Phase 3

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Photo 11: Deployment of geosynthetics on slope at Cell CC4 – Phase 3

Photo 12: LFG and leachate extraction well – Gabion collector

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November Site Visits

November 19, 2019:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 11/19/19
Site Conditions: Cloudy 50-75˚ F, 0-10 MPH winds	

SITE LOG

Republic General Manager - Chris Coyle

Drove the Granada Hills neighborhood and school areas from 6:30 to 7:00 a.m. There were no landfill-related odors detected. Met with Mike Lindsay (UltraSystems), Tim Stapleton and Edgar De La Torre (LACDRP), and Vu Truong (LACDPW). We signed in and proceeded to monitor the site and observed the following:

- Cell CC-4 Part 3 had accepted morning waste and was active all day. The gabion liquid and gas recover structures were covered with filter fabric. The temporary basin was HDPE lined and a water removal pump was in place on a pad. The top deck of CC-4 Part 1/2 near the County bowl area was accepting transfer truck waste.
- The top deck of Cell CC-3A had gas well drilling occurring in the northern area.
- The old City south slopes were graded and water runoff control systems in place and ready for winter rains. Some slopes were hydroseeded.
- The top deck of CC-3B was cleared of stored construction materials and graded. The CC-3B upper slopes had straw wattles in place and were hydroseeded.
- We were not able to access areas with fire damage from the Saddleridge fire. From a distant view, sage mitigation decks A, B, and C were severely damaged. Flare 3 gas collection piping on the Basin A southern slope was destroyed. Interior canyon slopes were burnt in the whole canyon. Oak trees on the north and south ridges were scorched.
- Sierra Highway was free of windblown litter and illegal dumping.
- The temporary basin below CC-3B (Basin 3B) had an outlet riser installed.
- Basin A was cleared of sediment and ready for winter rains. A new collection line to Flare 3 was installed.
- Concrete pads for new blowers at the Flare 12 location were in place.
- Basin B was cleared of sediment and ready for winter rains.
- The terminal basin was cleared of sediment. Trash was being removed from around the outlet risers. The skimmer system was repaired and is operational.

Page 2 of 2, 11/19/19:

Flare Operating Conditions:

- Flare 1 - Flare was not accessible due to fire access restrictions. It was stated by SCS that approximately 2200 SCFM was being flared.
- Flare 3 - Flare was not accessible due to fire access restrictions.
- Flare 9 - Flare down for maintenance
- Flare 10 - 1658˚F, 2936 SCFM, -63.76" vacuum, 41.24" out
- Flare 11 - 1658˚F, 2807 SCFM

The gas-to-energy plant was using 9,099 SCFM of recovered landfill gas, 45% CH_4, 2.0% O_2, 97 ppm H_2S. Total gas volume recovered was 17,042 SCFM.

FURTHER REVIEW NEEDED
COMMENTS
Signed:

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 11-19-2019 Tuesday
Site Conditions: Partly cloudy, 62–77 °F, 4–14 mph, 18% RH	

SITE LOG

1. Met with Jim Aidukas (UltraSystems), and checked into office.
2. Met with Tim Stapleton and Edgar De La Torre (LAC DRP), and with Vu Truong (LAC DPW).
3. The new working area at Cell CC-4 Part 3 is in good order, including traffic controllers and water trucks for odor and dust control. ADC is 40% covered with new trash at 8:30 AM.
4. Cell CC-3A top deck has three tippers set up to receive new trash. ADC is 50% covered with new trash at 9:40 AM.
5. A new gas collection well is being drilled on Cell CC-3A top deck, at the north end.
6. Terminal basin is clear of sediment. Workers are clearing the vertical drain area of trash and debris.
7. Inlet to terminal basin has a soil berm across channel.
8. Sierra Highway is clear of windblown trash.
9. Water trucks are applying water throughout site for dust control.
10. Sediment basin 3B has a new inlet drainage pipe under roadway, coming from the low-point collection system.
11. Observed Cell CC-4 Part 3 working area from western slope ridge.
12. Traffic spotters are onsite to control traffic.
13. Sediment basin A is clear of soil. A new perimeter gas header pipe has already been installed, after the fire had melted the existing pipe.
14. Flare 9 is offline.
15. Flare 10 is operating at 2924 scfm, 1664 °F. Gas sample measured at 42 % Vol. CH4, 0.6 % Vol. O2, 97 ppm H2S and 341 ppm CO. Gas inlet temperature is 147 °F.
16. Flare 11 is operating at 2802 scfm, 1658 °F.
17. Street sweepers are cleaning the haul roads.
18. Concrete pads have been poured for the new Flare 12.
19. Sediment basin B is cleared of soil.
20. Could not observe Flare 1 or City decks A, B or C sage mitigation areas due to post-fire repairs currently underway.
21. Met with Joshua Mills and Mike DeYoung (Republic), and discussed our site monitoring observations.

FURTHER REVIEW NEEDED

1. None

Signed: Michael W. Lindsay

December 11, 2019:

James Aidukas (UltraSystems)

Mike Lindsay (UltraSystems)

Michelle Tollett (UltraSystems)

Tarik Hadj-Hamou (SLR)

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SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 12/11/19
Site Conditions: Cloudy 50-70° F, 0-10 MPH winds	

SITE LOG

Republic General Manager - Chris Coyle

Drove the Granada Hills neighborhood and school areas from 6:20 to 7:00 a.m. There were no landfill-related odors detected. Met with Mike Lindsay and Michelle Tollett (UltraSystems), Tarik Hadj-Hamou (SLR), Tim Stapleton (LACDRP), and Vu Truong (LACDPW), and had a brief discussion with Chris Coyle. We signed in and proceeded to monitor the site and observed the following:

- The Saddleridge fire totally burned the City Deck C sage mitigation and PM-10 Oak tree area. Recovery activity plans need to be developed and implemented. Some PM-10 Oak trees may not recover.
- The Deck C access road to the oil field road had tree and vegetation burned and the road is unstable due to a supporting slope landslide. The access to this road should be locked at both entrance gates.
- The Deck B sage mitigation area was totally burned by the fire. Recovery plans should be developed and implemented.
- The Deck A native vegetation was totally burned by the fire. Plans to promote regrowth should be developed.
- The CC-4 Part 3 buttress has all of the slope drainage channels in place. The access road to Flare 3 is paved.
- The Basin A outlet and the buttress drainage flow discharge into a new permanent portion of the ultimate westside drainage channel.
- CC-4 Part 3 was not accepting waste due to the wet weather impacts on the access road. The CC-4 Part 3 basin had standing water that was being pumped out.
- There were no impacts to the closure turf from the fire or rain.
- The north area of CC-4 Parts 1 and 2 near the County Bowl was accepting waste. The dirt access road east of the County Bowl area was not adequately being watered around 11:00 a.m. and dust was observed coming from the entire eastside road.
- Basin B had approximately one foot (1') of wet sediment covering the basin's floor. There was six inches (6") of standing water at the outlet risers.
- Cracks were observed in the high-flow outlet concrete spillway of Basin B.
- There were some areas of standing water on the north area of the County top deck.
- There was a significant amount of sediment in the terminal basin from recent rain events. There was standing water on both sides of the gabion wall. There was a significant amount of floating debris around the outlet risers. The outlet channel had very little sediment.

Page 2 of 2, 11/19/19:

- The new CC-3B basin riser was working well. There was no observed rain impacts to the new employee access road to the Old City North area.

Flare Operating Conditions:

- Flare 1 - 1646˚F, 2141 SCFM, -57.63" vacuum, 38.75" out, 33% CH_4, 1.3% O_2, 100 PPM H_2S
- Flare 3 - Flare was not accessible
- Flare 9 - 1684˚F, 4148 SCFM, -63.1" vacuum, 39.1" out, 42% CH_4, 0.6% O_2, 97 PPM H_2S
- Flare 10 - 1652˚F, 3841 SCFM
- Flare 11 - 1653˚F, 4885 SCFM

The gas-to-energy plant was not operating. Total gas volume recovered was approximately 15,015 SCFM assuming Flare 3 was not operating.

FURTHER REVIEW NEEDED
COMMENTS
Signed:

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: Mike Lindsay	Page: 1 of 1
Discipline: Environmental Engineer	Date: 12-11-2019 Wednesday
Site Conditions: Partly cloudy, 55–67 °F, 1–6 mph, 43% RH	

SITE LOG

1. Met with Jim Aidukas, Tarik Hadj-Hamou and Michelle Tollett (UltraSystems), and checked into office and with Chris Coyle (Republic).
2. Met with Tim Stapleton (LAC DRP), and with Vu Truong (LAC DPW).
3. The City Deck C sage mitigation area is mostly burned from the Saddleridge fire on October 11, 2019.
4. The PM-10 berm oak trees are partially burned, with some new green growth sprouting.
5. Water misters are active along the PM-10 berm.
6. City Deck B sage mitigation area has one pocket of burned area. Irrigation pipes are largely broken from trucks during landfill gas pipe replacement, required after the fire.
7. Flare 1 is operating at 2141 scfm, 1646 °F. Gas sample measured at 33 % Vol. CH4, 1.3 % Vol. O2, 100 ppm H2S and 337 ppm CO. Gas inlet temperature is 96 °F.
8. City Deck A sage mitigation area has been mostly burned by the fire. Green grass is spouting due to recent rains.
9. Traffic spotters are onsite to control traffic.
10. Water tank by City Deck A is in good order, with its foundation draining well.
11. The new working area at Cell CC-4 Part 3 is in good order, including traffic controllers and water trucks for odor and dust control, with one gabion drainage system still exposed on south end.
12. Cell CC-4 Part 3 low-point drainage area has a minimum amount of standing water.
13. Street sweepers are cleaning the haul roads.
14. Sediment basin B floor is covered with about one foot of new sediment from recent rains.
15. Dust clouds were present along the north haul road by sediment basin B, with haul trucks speeding down the hill.
16. Cell CC-4 Part 1/2 working area is in good order, with tippers, traffic control and water trucks.
17. Bird abatement is active at the working area, including rockets and falconry.
18. Flare 9 is operating at 4102 scfm, 1682 °F. Gas sample measured at 47 % Vol. CH4, 1.1 % Vol. O2, 93 ppm H2S and 419 ppm CO. Gas inlet temperature is 122 °F.
19. Flare 10 is operating at 3929 scfm, 1648 °F.
20. Flare 11 is operating at 4963 scfm, 1652 °F.
21. New blowers have been installed adjacent to the existing controls area.
22. The gas to energy facility is temporarily offline, which explains the high flare volumes today.
23. Terminal basin is mostly covered with standing water from recent rains.
24. Trash and debris have collected near riser drains and outside of west wall at outlet channel.
25. Met with Chris Coyle, Joshua Mills, Tuong-phu Ngo, Dennis Montano and Mike DeYoung (Republic), and discussed our site monitoring observations.

FURTHER REVIEW NEEDED

1. Eliminate dust clouds on north haul road with increased watering and speed limit control.
2. Remove trash and debris from terminal basin and outlet channel area.

Signed: Michael W. Lindsay

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING SITE REPORT

Monitor: Michelle Tollett	Page: 1 of 1
Discipline: Senior Biologist	Date: 12-11-2019 Wednesday
Site Conditions: Partly cloudy, 55–67 °F, 1–6 mph, 43% RH	

SITE LOG

1. Met with Jim Aidukas, Tarik Hadj-Hamou and Michael Lindsay (UltraSystems), and checked into office and with Chris Coyle (Republic).
2. Met with Tim Stapleton (LAC DRP), and with Vu Truong (LAC DPW).
3. The southern half of the City Deck C sage mitigation area is burned from the Saddleridge Fire, which occurred onsite on October 11, 2019. Evidence of crown sprouting was present for some of the coastal sage scrub species, especially the *Encelia californica* (bush sunflower). Many of the other plants are expected to begin crown sprouting during the coming months.
4. Another quarterly inspection during the revegetation meeting will provide insight into the likely success of the project and help determine the next steps for post-burn recovery.
5. Much of the newly formed duff (natural mulch) under the plants was burned, which is unfortunate because this duff cover functioned to hold soil moisture, house the seed bank, and provide food and cover for wildlife (birds, reptiles, invertebrates). The importance of duff under the plants cannot be understated. Loss of natural mulch due to unnatural fire frequency is a prime contributing factor to degradation of protected wildlands.
6. Many of the PM-10 berm oaks exhibited yellow or brown leaves from the heat and smoke, but were not directly burned. These oaks appeared stressed, but are expected to make a full recovery, as long as rainfall is average/normal this winter. Several of the oaks that were directly burned did appear extremely stressed, exhibited black, charred, exfoliating bark, and leaf loss. Recovery of these trees should be watched over the next year to determine the next steps. Stressed trees are susceptible to pathogen invasion and insect infestation and should be closely monitored every quarter by an arborist specifically trained for local pathogen and disease monitoring. Not all arborists have the same level of training – it is imperative that the arborist be trained to diagnose and treat compromised coast live oaks.
7. The sprinkler system appeared non-functional, as the fire melted most above-ground lines. The irrigation system should be replaced, where appropriate, as directed by Architerra.
8. City Deck B sage mitigation area has one pocket of burned area. Irrigation pipes were damaged by work trucks during the landfill-wide gas pipe repairs, which required diving over Deck B for the replacements.
9. City Deck A sage mitigation area was also burned; we estimate at least 80% of the site was damaged by the fire. Green grass is spouting after recent rains. It was too early to determine the level of recovery at this site.
10. Met with Chris Coyle, Joshua Mills, Tuong-phu Ngo, Dennis Montano and Mike DeYoung (Republic), and discussed our site monitoring observations.

FURTHER REVIEW NEEDED

1. Continue to monitor the mitigation sites quarterly for post-fire recovery, including oak berm.
2. Recommend contacting CDFW in the Spring 2020 with the post-fire recovery status, showing photos of damage and recovery, to alert the agency of successes and determine the level of effort for an "act of God" and close out City sage mitigation area Deck C for final approval.

Signed:

SUNSHINE CANYON LANDFILL

MITIGATION MONITORING
SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 9
Discipline: Civil – Geotechnical and Hydrology	Date: December 11, 2019
Site Conditions: Sunny and warm	

SITE LOG

7:00 – 8:00

- Meet with UltraSystems team members Jim Aidukas, Mike Lindsay, and Michelle Tollett to prepare tour of landfill, review of previous visits, discuss potential issues, organize areas and features to inspect.
- Sign-up at landfill
- Meet with Tim Stapleton (LAC DRP) and Vu Truong (LAC DPW)
- Discuss inspection process namely touring the areas affect by the Saddleridge fire that are open to inspection

8:00– 2:30 Site inspection

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

Access Roads Including Oil Road.

- Main access road: No stability concerns
- Access road to administration pad – no additional depression/settlement observed on slope
- Emergency Exit Road near remediation area at Deck A of City landfill
  - Following heavy rain erosion along the edge of the road took place (Photo 1) and poses a threat

Waste Placement

- Only one waste face was in operation
- 4 Tilters were set-up on top of Cell CC4 – (Photo 2)

Drainage System

- Terminal Basin (Photo 3)
  - Basin is partially full
  - One skimmer was in operation (Photo 4)
  - The sediments accumulated behind the decant towers will not impact he performance
- Cell CC3 Earthen basin
  - The basin has been regraded cleaned and available for storage
  - The future access road crosses the basin and a culvert has been installed (photo 5)
  - The lack of trash guard on the outlet noted in previous visits has been fixed (Photo 6)

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- Basin B
  - Some sediments have accumulated but not enough to impact the performance of the basin (Photo 7).
- Basin D
  - Basin is clean and available for water storage
  - The maintenance issues noted during the previous visit still need to be addressed:
    - ✓ Gap between the shotcrete and the soil at the spillway which may cause problem is additional undermining occurs (Photo 8).
    - ✓ Vegetation growing through crack in downstream side of spillway (Photo 8)
- However, the safety bars are missing on top of the decant towers have been installed (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.
- Basin A
  - Could be reached because of road conditions
- Channel along the main access road
  - Clean
- Basin at Cell CC4 Phase 3
  - Some water accumulated in the geosynthetics lined temporary basin has been installed in the southeast corner of the cell (Photo 10)

Cell 4 Phase 3 Liner

- Liner system was being deployed on the upper benches (Photo 11)
- The gabion system for LFG/leachate collection was protected by a geotextile (Photo 12)
- Minor damage noted on the operation layer (Photo 13)
- No damages observed on the slope liner

Erosion Protection Systems

- Some gullies and ruts were observed on some of the slopes, namely on downstream slope of the earth embankment of the Cell CC3 basin (Photo 14)

Landfill for geotechnical and hydrological issues

- No fissures or cracks were observed in any of the slope or roads

Other Observations

- No odor detected outside of landfill

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

FURTHER REVIEW NEEDED

- None

COMMENTS

- Site performed very well during recent heavy rainstorms with minim erosion

Signed:

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Photo 1: Damage to emergency exit road

Photo 2: Waste disposal at Cell CC4

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Photo 3: Overall view of the Terminal Basin

Photo 4: Skimmer at Terminal basin – one skimmer was on

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Photo 5: Access road crossing of Cell CC3 earthen basin

Photo 6: Trash Gard on outlet of Cell CC3 earthen basin

Photo 7: Sediments in Basin B

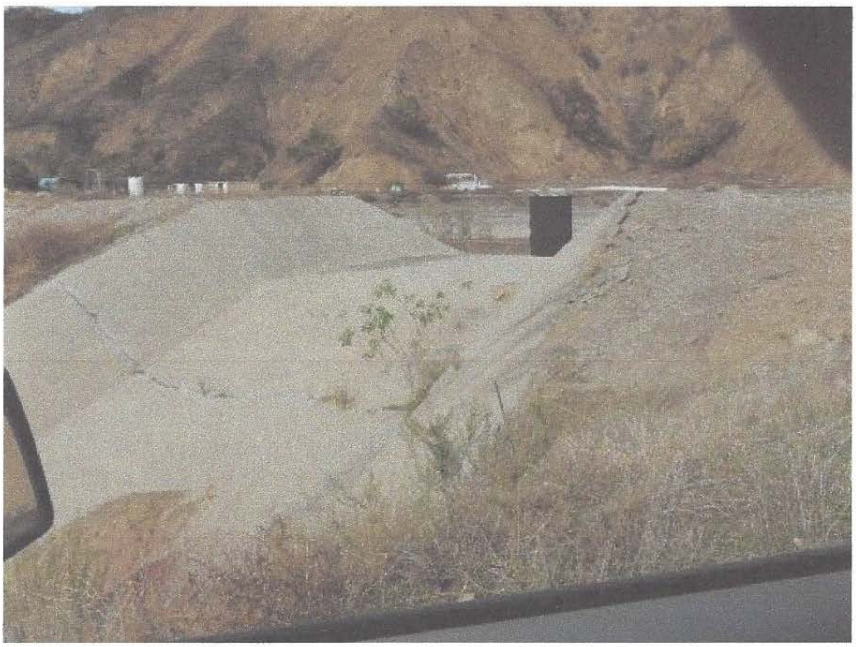

Photo 8: Vegetation and concrete crack in spillway of Basin D

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Photo 9: Decant towers at Basin D Equipped with safety bars

Photo 10: Temporary lined basin at Cell CC4 – Phase 3

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Photo 11: Deployment of geosynthetics on slope at Cell CC4 – Phase 3

Photo 12: Combined LFG and Leachate collection system at Cell CC4 Phase 3

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Photo 13: Damage to operation layers on slope of Cell 4 Phase 3

Photo 14: erosion gullies on downstream slope of Cell CC3 earthen basin

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Appendix IV
Meeting Logs

Sunshine Canyon Landfill
Meeting Log for October 2019 Site Monitoring

October 29, 2019

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

Attendees:
Tim Stapleton, LAC DRP
Gabriel Esparza, LAC DPW
Mike Harmon, LAC DPW
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 we observed a large crevice in the outside eastern slope of the property near Coltrane Road and the I-5 interstate.
   - Dennis Montano stated that they will look into what the crevice is, and if it has any impact on the site.

b. James Aidukas stated that a smoldering fire hotspot was present south of the County sage mitigation area at 9:15 AM.
   - Tuong-phu Ngo stated that the fire department is already aware of that hotspot, and is actively dropping water on that location.

c. James Aidukas stated that a downed power pole and lines were observed laying across the dirt road that leads to mitigation oak trees at the crest of the oil field road.
   - Tuong-phu Ngo stated that new power poles are scheduled to be installed by DWP in that area.

d. Tarik Hadj-Hamou stated that the liner systems were inspected and are in good condition, with no fire damage observed.
   - Tuong-phu Ngo acknowledged the statement.

e. Tarik Hadj-Hamou stated that the new liner at Cell CC-4 Part 3 is approaching the time limit of being exposed to the atmosphere without is being damaged by ultraviolet light.
   - Tuong-phu Ngo stated that they are on schedule to have the liner covered with soil and new trash within design limits.

f. Tarik Hadj-Hamou stated that we observed that the sediment basins and the drainage channels have been cleared of sediment and debris.
   - Tuong-phu Ngo acknowledged the statement.

g. Tarik Hadj-Hamou asked what the numerous 2" galvanized pipes were near the perimeter monitoring well 205. These were covered by brush before the fire.
   - Dennis Montano stated that they will look into it and what they were used for.

h. Tarik Hadj-Hamou stated that we observe that Cell CC-4 Part 3 was now accepting trash.
   - Tuong-phu Ngo stated that they also have two gabion drainage block systems covered and operating.

i. Gabriel Esparza asked what the status was of the Flare 1 header.
   - Tuong-phu Ngo stated that they have replaced the laterals, header and some wells.

j. Gabriel Esparza asked what the status was of Flare 3.
   - Tuong-phu Ngo stated that he was not sure if they have gotten the power poles and lines replaced yet to Flare 3. That they are also approximately 30 to 60 days away from restoring City South power and communications.

k. Gabriel Esparza asked what the status was of Flares 9, 10 and 11.
   - Tuong-phu Ngo stated that they are in the process of restoring power, and that they are still running on the emergency generator due to fire damage.

l. Gabriel Esparza asked what was the volume of gas being recovered.
   - Tuong-phu Ngo stated that they were recovering about 17,000 SCFM.

m. James Aidukas stated that we observed that the weather station above the terminal basin had burned wire cables and appeared to not be operational.
   - Tuong-phu Ngo stated that the weather station is an old, retired station and that all of the other weather stations are functioning well.

n. Gabriel Esparza asked if Republic was going to prepare an overall status report regarding fire damage at the landfill.
   - Tuong-phu Ngo stated that they are making a list and collecting photos of the fire damage, and can organize them into a report.

o. Tim Stapleton stated that the November CAC meeting is coming up, and that the community will likely want to know how the fire impacted the landfill.
   - Tuong-phu Ngo acknowledged the statement.

p. Mike Harmon asked if the County can receive a copy of Republic's emergency response plan.
   - Dennis Montano stated that they will send it to the County.

q. James Aidukas stated that according to Dave Thompson (City LEA), Republic personnel were denied access to the landfill after the fire started until Dave used his City badge to get them through the traffic control fire barricades. James Aidukas suggested that Republic meet with the fire and police departments regarding access to the landfill during and after emergencies to allow trained personnel to move equipment and shut down landfill essential systems.
   - Tuong-phu Ngo acknowledged the statement.

r. Gabriel Esparza asked if Republic's emergency response protocol was followed during and after the fire.
    - Tuong-phu Ngo stated that they followed all protocols, and that they were lucky that the fire occurred at night as people were heading home.

The meeting was then adjourned.

Sunshine Canyon Landfill
Meeting Log for November 2019 Site Monitoring

November 19, 2019

Post-monitoring meeting with Joshua Mills and Mike DeYoung (Republic).

Attendees:
Tim Stapleton, LACDRP
Edgar De La Torre, LACDRP
Vu Truong, LACDPW
James Aidukas, UltraSystems
Mike Lindsay, UltraSystems

Discussion:

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

a. James Aidukas asked if the Cell CC-4 Part 3 liner is being protected from exposure to ultraviolet light.
   - Joshua Mills stated that a sacrificial geomembrane is protecting the CC-4 Part 3 liner system.

b. James Aidukas stated that we observed a new block retaining wall was installed on the slopes above the CC-3B Basin.
   - Mike DeYoung stated that the retaining wall was for slope stability for an employee access road to the future scales and offices location.

c. James Aidukas stated that we observed a new outlet riser and inlet rock-lined channel was installed in sediment basin 3B.
   - Mike DeYoung stated that new drainage and rip rap are being installed, along with an access road crossing.

d. James Aidukas stated that the drainage channel vehicle bridge near sediment basin A has no safety side guard rails.
   - Joshua Mills stated that they will investigate installing delineators at the location.

e. James Aidukas stated that there is a large vertical crevice on the freeway facing perimeter slope west of the I-14 freeway overpass.
   - Joshua Mills stated that they will have their geotechnical consultant investigate it.

f. James Aidukas stated that the terminal basin has trash and debris that has not yet been removed by the outlet risers.
   - Joshua Mills stated that they will get that trash removed right away.

g. James Aidukas stated that the eastside access road had significant dust clouds from transfer trucks using the road.
   - Joshua Mills stated that they will immediate employ water trucks today and will monitor this area in the future.

h. James Aidukas asked how Cell CC-4 Part 3 temporary basin will be drained of stormwater.
   - Joshua Mills stated that they will pump it into the road-crossing pipe on the south slope below the office site.

i. James Aidukas stated that it looks like a liquid breakout occurred above the Part 3 retention basin.
   - Joshua Mills stated that they are adding infrastructure and drainage to that area and any liquids encountered will be recovered and soils deodorized.

j. James Aidukas stated that there were no landfill odors in the niehgborhood this morning. There was no windblown litter or illegal dumping seen on Sierra Highway or San Fernando Road.
   - Joshua Mills acknowledged the statement.

k. James Aidukas stated that about 17,042 SCFM of landfill gas was recovered today.
   - Joshua Mills acknowledged the statement.

l. Vu Truong stated that there seems to be the potential for mud flow near the Sunshine Gas Producer's Edison substation due to the Saddleridge fire.
   - Joshua Mills stated that part of the fire repair plan is to go around the entire perimeter and regrade and hydroseed.

m. Vu Truong stated that there was odor near sediment basin B and the County bowl area.
   - Joshua Mills stated that there was a forced main issue in this area, where calcium buildup in the transmission pipes caused liquid to back up at the wells. This transmission problem has been fixed. The liquids are being removed and gas wells are functioning and reducing liquid levels.

n. Tim Stapleton asked if the off-limit fire areas will be opened in December.
   - Joshua Mills stated yes, the main work will be completed by this Thursday, November 21st.

o. James Aidukas asked if all the Edison powerlines that were affected by the fire were replaced and online.
   - Joshua Mills stated yes, and that Edison replaced 30 power poles.

p. James Aidukas asked if the DWP-supplied electric power was online.
   - Joshua Mills stated yes.

q. Vu Truong asked if Joshua Mills will be at the upcoming task force meeting.
   - Joshua Mills stated yes.

r. James Aidukas stated that Eugene Tseng had a Facebook post regarding gas emissions at the Old City top deck.
   - Joshua Mills stated that those maps being used are from old flyover photos.

The meeting was then adjourned.

Sunshine Canyon Landfill
Meeting Log for December 2019 Site Monitoring

December 11, 2019

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

Attendees:
Tim Stapleton, LAC DRP
Vu Truong, LAC DPW
James Aidukas, UltraSystems
Mike Lindsay, UltraSystems
Michelle Tollett, UltraSystems
Tarik Hadj-Hamou, SLR

Discussion:

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

a. Michelle Tollett asked if the vegetation impacted by the Saddleridge fire had been cleared at the City Deck C sage mitigation area.
   - Mike DeYoung stated that they had to repair the lateral gas recovery system and tried to avoid impact to the vegetation and soil contours.

b. Michelle Tollett asked if the Q4 site vegetation meeting had been scheduled.
   - Mike DeYoung stated that it is usually scheduled for the month after the quarter, so it will probably be noticed in January or February.

c. Michelle Tollett asked if City deck B or C sage mitigation areas were being irrigated.
   - Mike DeYoung stated that those decks had moved into the monitoring and maintenance phase, and no irrigation was required.

d. Michelle Tollett stated that the majority of the PM-10 berm oak trees should recover from the fire but suggested to watch for beetle infestations due to stress conditions.
   - Mike DeYoung acknowledged the statement.

e. Tarik Hadj-Hamou stated that the unimproved access road from the oil field road to the Deck C had part of its shoulder wash away.
   - Joshua Mills acknowledged the statement and said that they would have their geotechnical consultant look at the slide area and road condition.

f. Michelle Tollett asked if the burned irrigation lines will be left in place and if they will be replaced.
   - Tuong-phu Ngo stated that they will be removed and not replaced.

g. Michelle Tollett stated that the fire appeared to have avoided the County sage mitigation area. The area seemed to be stable, and UltraSystems has developed the methodology, as discussed at the last County vegetation meeting, to estimate the required vegetation coverage needed for the slope's soil and rock condition.
    - Mike DeYoung acknowledged the statement.

h. James Aidukas asked if a post-fire tree inventory was planned.
    - Chris Coyle stated that they will develop a five-year plan.

i. Mike Lindsay asked if the big cone fir trees count will include last year's losses along with this year's fire losses.
    - Chris Coyle stated that they will all be included.

j. Tarik Hadj-Hamou stated that the slopes and basins look very good, considering the recent rains.
    - Chris Coyle acknowledged the statement.

k. Tarik Hadj-Hamou stated that safety guards have been installed on the sediment basin D riser drains.
    - Chris Coyle acknowledged the statement.

l. Tarik Hadj-Hamou asked if Cell CC-4 Part 3 was approved by the Water Board.
    - Chris Coyle stated that it was approved. They cannot put in a wet weather road until they have two more lifts over the whole cell. Cells CC-4 Parts 1 and 2 are now accepting waste.

m. James Aidukas asked when the construction of the next cell will begin.
    - Chris Coyle stated that the administration buildings will be moved at the end of Q1 2020 or the beginning of Q2, and that the maintenance shop will relocate in 2021.

n. James Aidukas asked when the final toe berm construction is scheduled to start.
    - Chris Coyle stated that the final toe berm buttress construction is scheduled to start in 2020 and will be a three-year project.

o. Mike Lindsay stated that we observed dust clouds along the eastside haul road at 11:00 a.m. and suggested that more frequent water application and speed limit enforcement be considered.
    - Chris Coyle acknowledged the statement.

p. James Aidukas asked if the Terminal Basin skimmers were repaired and working.
    - Chris Coyle stated that the terminal basin is in good condition, and that the skimmers are working well. They are now actively discharging. Last year, the terminal basin skimmers were filled with silt.

The meeting was then adjourned.