

**Sunshine Canyon Landfill  
Independent Monitor  
Quarterly Site Monitoring Status Report  
July 1, 2022 – September 30, 2022**

*Prepared For:*

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

*And*

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



*Prepared By:*



16431 Scientific Way  
Irvine, California 92618

*Prepared On:*

January 9, 2023



### **CERTIFICATION STATEMENT**

January 9, 2023

The attached Quarterly Site Monitoring Status Report for the Sunshine Canyon Landfill dated January 9, 2023 is the Third Quarterly Report for 2022, issued by UltraSystems. This report covers the monitoring period from July 1, 2022 through September 30, 2022 and is prepared for the City of Los Angeles Department of City Planning and the County of Los Angeles Department of Regional Planning.

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

Signed,



James T. Aidukas

Project Manager

Contents

Quarterly Status Report..... 1

Site Visits During the Quarter..... 2

Definition of Terms..... 2

Status Summary ..... 2

Compliant.....2

Non-Compliant.....2

Further Review Needed..... 3

Conclusions..... 17

Sunshine Canyon Landfill City Mitigation Monitoring Summary  
(see spreadsheet)

Sunshine Canyon Landfill County Mitigation Monitoring Summary  
(see spreadsheet)

Appendices

- Appendix I Further Review Needed Comments: Reference I-g through I-i
- Appendix II Photo Location Map and Relevant Site Photos
- Appendix III Quarterly Site Visits  
Attendees by Date and Mitigation Monitoring Site Reports

## 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 July 1, 2022 to September 30, 2022. It includes:

1. The City and County Mitigation Monitoring Summary spreadsheets for April 1, 2022 to June 30, 2022. These spreadsheets record the areas of monitoring completed and the status of being compliant during the third quarter of 2022;
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; and
4. Site visit attendees by date of site visit and the mitigation monitoring site report from each monitor.

## Site Visits During the Quarter

Three site visits were performed by UltraSystems during the July to September 2022 quarter in order to observe operational site activities and determine compliant status with conditions and/or mitigation measures. They were performed on July 25, 2022; August 22, 2022; and September 19, 2022. A remote site monitoring conference call was held in lieu of normal site monitoring visit meetings in July, with after-site visit discussion with Republic staff in August and September.

## 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.

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/Comment** – There was no grading outside of the approved landfill development limits during the 3rd Quarter. The grading that occurred was for construction of the final main access road and drainage channel around the road. The road realignment was not within the Sunshine Canyon waste fill limits but is in the CUP-approved areas for ancillary uses. The road realignment also included a new sedimentation basin and the removal of a portion of the existing terminal basin and the westside inlet channels to the basin. This was in preparation for the construction of a final toe berm. In the 3rd Quarter, the new access road had soil placed to near final elevations from the entrance on San Fernando Road to the oil field road above the basin. There was no soil compaction

equipment except for soil haul trucks. The new road construction and final toe berm will need a substantial amount more soil importation. The completion of these improvements is scheduled for 2023. The soil quantity trucked in was not being recorded at the scales nor by a field observer. Cell CC-4 Part 3 and CC-4 Part 4A and 4B were the only areas accepting waste during the 3rd Quarter. ADC was being used at the active disposal areas. ADC was covered with soil on Saturdays.

#### **Q-C.3.h (City)**

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

**Current Status/Comments** – In the 3rd Quarter, localized dust clouds occurred on dirt roads to and on the County top deck when waste hauling transfer and packer trucks used the dirt roads going to the active waste disposal areas and when soil importation trucks were delivering soil. The dust was not observed leaving the site. The current disposal areas are small cells and are non-contiguous. In the near future, when large contiguous cells are used for disposal, more permanent access roads need to be constructed. They should be surfaced with recycled aggregate or soil stabilizer.

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

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

**Current Status/Comments** – In the 3rd Quarter, there was no graffiti observed at the landfill site.

#### **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 foregoing, 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 July, the gas-to-energy plant meter was not operating. Flare 1: 1880 SCFM; Flare 3: not operating; Flare 9: 3212 SCFM; Flare 10: not operating; Flare 11: 3139 SCFM. The total volume of landfill gas being recovered and flared was 8,231 SCFM.

In late August, the gas-to-energy plant was using 4524 SCFM of recovered landfill gas. Flare 1: not monitored due to blocked access; Flare 3: not operating; Flare 9: not operating; Flare 10: 3874 SCFM; Flare 11: 5008 SCFM. The total volume of landfill gas being recovered was 13,406 SCFM not including Flare 1, which is typically 2700 SCFM.

In mid-September, the gas-to-energy plant was using 8942 SCFM of recovered landfill gas. Flare 1: 1966 SCFM; Flare 3: 2300 SCFM; Flare 9: not operating; Flare 10: 2378 SCFM; Flare 11: 2454 SCFM. The total volume of landfill gas being recovered was 18,040 SCFM.

Throughout the 3<sup>rd</sup> Quarter, the monthly average quantity of landfill gas being recovered was approximately 18,000 SCFM, with the gas-to-energy plant monthly average usage approximately 8900 SCFM. Republic has stated that they are pursuing options for using the excess recovered gas that is now being flared.

#### **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 normal and emergency ingress and egress should be prepared and sent to the local City fire department station and City and County planning now that the office facilities have been moved to the new location and the realignment of the main access road and toe berm are under construction. Emergency egress should be posted for employees and customers.

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

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

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

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



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

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

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

*Geologic Hazards - Liquefaction*

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

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

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

**Geology-1.07 (County)**

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

**Current Status/Comments** – There was no grading outside of the approved landfill development limits during the 3rd Quarter for waste disposal. Grading for the road realignment was done in the small valley south of the current main access road. The use was approved in the original CUP for ancillary uses. The construction plans and supporting geotechnical reports were reviewed and approved by City Planning and the City Building Department. The City also approved brush and tree clearance and hillside grading. The technical reports and detailed plans were not available for review. Compliance with County Geology - 1.07 CUP Condition was not able to be verified by the monitor or County departments. The rainwater control system for the new access road and sedimentation basin had uncontrolled rainwater impact the Gas Company's facility and San Fernando Road. How and where the new basin will discharge rainwater was not provided.

**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 the 3rd Quarter.

**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 number 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 3rd 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. The areas where the County top deck stockpile soil was removed which had isolated, deep depressions had prior significant ponding from rain events were being filled and graded during the 3rd Quarter. Revegetation hydroseeding was not performed on inactive fill areas.

**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 but inside the ridgeline of Sunshine Canyon.

#### **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 CC-4 Part 3 buttress. All PVC boundary markers need to be verified and replaced if missing.

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

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

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

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

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

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

- a. Sample Probe Installation: One monitoring probe per 1,000 feet or as identified by South Coast Air Quality Management District (SCAQMD) and/or Local Enforcement Agency (LEA) in the landfill expansion, and one probe per 650 feet or as identified by SCAQMD and/or LEA in the City Inactive landfill along the landfill perimeter, or whichever is more restrictive shall be installed to identify potential areas of subsurface landfill gas (LFG) migration. These probes shall be monitored to ensure that quantities of LFG beyond regulatory standards do not vent offsite through subsurface soils.*
- b. Integrated Landfill Surface Sampling: The landfill surface shall be monitored to ensure that the average concentration of total organic compounds over the landfill surface does not exceed SCAQMD's standard of 25 ppm.*

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

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

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

#### **Amendment 45.N - 4.a, 4.c, 4.d (County)**

*Identify and provide status on the measures currently being implemented as required by the AQMD's Order for Abatement.*

*An odor patrol program, which would include the following at a minimum:*

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

#### **Amendment 45.N - 5 (County)**

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

**Current Status/Comments** – Compliance with these mitigation measures, concerning landfill gas monitoring and odor control and detection, is being monitored by a multi-agency team led by the SCAQMD. Only obvious gas emission sources, odorous operations related to gas and/or gas and

landfill liquids, lack of cover, or exposed trash resulting in odors detected during the monitoring visits are reported in the monitors' site report.

On our random days of site visits during the 3rd Quarter, no landfill odors were detected in the adjacent neighborhoods

The use of Closure Turf to seal inactive filled areas and function as intermediate cover also provided enhanced gas and liquids recovery and gas-related odor control. There were no gas or liquids odors detected coming from the Closure Turf areas.

#### **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 engineering reports should be available for review and use.

Surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas, and most conveyance V-ditches were unlined. The construction of the final toe berm and main access road realignment project had started. This is a two-year project and includes a new basin, modification of

the terminal basin, and the construction of new drainage channels, and possibly a new upstream basin from the terminal basin. The road realignment will entail the construction of a new main access road, a 350,000 cubic-foot sedimentation basin, and drainage improvements in the ravine south of the current entrance and modifications to the terminal basin's size and inlet sources. The design plans and design details and calculations were submitted to the City for permit approval. The design plans and engineering reports were not available for review by the monitor nor submitted to the LACDPW for approval. Compliance with Surface Water - 2.03 could not be verified. An engineering evaluation of the total site's surface drainage system should be done which reflects the current system's modifications. Onsite drainage channels should be designed per CCR, Title 23, Division 3, Chapter 15, Article 3, Section 2533(C), and County of Los Angeles Public Works Department, Flood Control requirements.

#### **M-4.3.1(39) (City)**

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

#### **M-4.18 / 178 (City)**

*The maximum permitted elevations for the landfill shall not be allowed to be exceeded at any time during landfill development and shall be verified through survey control points.*

**Current Status/Comments** – A map showing areas that are at the final elevations and which should have final cover should be available for review. Documents showing current filled elevations should also be available onsite for review.

#### **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 stormwater 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 stormwater runoff.*



**Current Status/Comments** – In the 3rd 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. Erosion control plans are developed and implemented. The erosion control plans should be available for agency and monitor's review. The County top deck was a concern due to areas of the deck having isolated depressions from removing stockpiled soil.

**M-4.3.1(41) (City)**

*The surface water collection system shall be designed to collect runoff and collect/retain suspended solids. Water leaving the sedimentation basins shall be monitored in accordance with NPDES requirements.*

**M-4.3.1(43) (City)**

*Sediment shall be cleaned out of the sedimentation basins after every significant storm.*

**Surface Water 2.10 (County)**

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

**Current Status/Comments** – All of the basins were cleared of sediment prior to October 1st. The channels were free of sediment on all but the eastside drainage system. Those channels had vegetation growing in the concrete, brush, and spots with an accumulation of sediment and windblown litter blocking water flow. In the 3rd Quarter, major modifications were made to the terminal basin and inlet channels. No hydrology reports were available to the monitor or the County.

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

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

**Surface Water 2.15 (County)**

*Surface Water Preventive Maintenance Program*

*A preventive maintenance program will be implemented by the permittee, including inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater. This program applies to the onsite drainage ditches, rip-rap, berms and dikes, dust control, silt fences, diversion grading, and pavement surfaces. Each system and piece of equipment will be inspected monthly.*

*Procedures for inspection would vary based on the piece of equipment or system. However, the major elements of the inspection program will include checking for cracks or structural failures, inspecting*

*parts or pieces of equipment nonfunctioning, checking for the degradation or deterioration of operating units, and investigating the need for cleaning or emptying units.*

**Current Status/Comments** – A preventative maintenance program with inspection of facility equipment, systems and storm water management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater should be performed on a monthly basis, with a summary report issued on a quarterly basis. These reports have been reviewed prior to COVID-19 restrictions and were available at the landfill's main office.

In the 3rd Quarter, it was observed that vegetation was growing out of numerous cracks in the water retention basins and drainage conveyance channels' concrete. There were areas of the channels and basins that needed the growing vegetation to be removed, and repair of the concrete and sealing of cracks. These clean-up and maintenance tasks are put on the monthly preventative maintenance program work list. There were two areas of the eastside channel that were blocked with mud and rock, debris and brush. One was fully blocked and the other one with minimal flow capacity. A concrete channel wall south of Basin C has the soil supporting the wall washed away by rain.

#### **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-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 during the 3rd Quarter. Tank farm liquids were being treated with 30% hydrogen peroxide at the tank farm and at the sewer connection.

#### **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** – During the 3rd Quarter, City sage mitigation areas decks B and C were being maintained by the removal of non-native vegetation. Native vegetation was doing well. Bare spots are being filled in from planted native plants. The condition of the PM-10 oak trees was still being evaluated by Republic's consulting biologists. The yearly mitigation tree status report was being prepared. There was a substantial amount of dead PM-10 trees observed by the monitor. A schedule for replacement is waiting for the biologist's report to be issued. There was no activity on the County sage mitigation areas. Native plants were doing well in the County sage area, repopulating in the areas where they naturally came back. No mitigation revegetation activity was done for this area in the 3rd Quarter.

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

*Native tree species shall be replaced at a 2:1 (replacement: removal) ratio, consisting of 15-gallon or 5:1 3-gallon container trees. Mitigation trees shall be planted prior to impacted trees being removed, thus allowing trees to grow to specimen size in the field. A specimen-size tree shall be defined as a 15-gallon tree with a minimum trunk caliper of 1-inch 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 evaluating the impacts of the Saddleridge Fire and other impacts has not yet been issued. The number and type of trees that will need to be replaced will be addressed in the report.

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

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

**Current Status/Comments** – The status on providing offsite wetland and riparian mitigation has not changed in the 3rd Quarter. The City was proceeding with writing and adopting 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 there has been no progress in finalizing and adopting the ordinance. Since the COVID-19 pandemic, progress has been suspended. The delay in the issuance of the City ordinance is delaying any progress in creating the required wetlands and riparian mitigation. Time extension letters from the US Corps of Engineers and the California Department of Fish and Wildlife were in place for 2019. New extension letters were not obtained since then. The Chatsworth Dam mitigation site needs to be evaluated as still being a potential mitigation site.

#### **M-4.9.3(110) (City)**

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

**Current Status/Comments** – In the 3rd Quarter, there was no litter or illegal dumping observed in the adjacent neighborhood or on Sierra Highway.

#### **M-4.9.4(125) (City)**

*The landfill operator shall maintain perimeter fencing in and around the site in accordance with CCR, Title 14, § 17658 to discourage illegal entry to the landfill. Where existing topography conditions create an effective barrier, no perimeter fencing shall be installed. Entrance and access gates shall remain locked when the landfill facility is not in operation. All existing perimeter fencing shall be inspected on a routine basis by the landfill operator, and necessary repairs shall be made to ensure a continued deterrent for unauthorized entry to the project site. Additionally, the landfill operator shall maintain posted "no trespassing" signage at the exterior perimeter fencing nearest the project site entrance.*

**Current Status/Comments** – During the 3rd Quarter of 2022, the north perimeter gate was observed to be locked.

#### **M-4.19.2(191) (City)**

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

#### **Ecological Significance 62 (County)**

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

**Current Status/Comments** – During the 3rd Quarter, the only grading in native undisturbed areas that required biological, archeological and paleontological monitoring was in the front entrance and the southeast ravine, where brush and tree clearance and rough grading was done for the development of the main access road realignment.

#### **Alternative Fuel Vehicles 77.A-H (County)**

*As part of its annual report to the TAC required by the IMP, the Permittee shall submit an ongoing evaluation of its compliance with each component of this Condition No. 77. The Permittee may appeal the requirements of this Condition No. 77 to the Director of the Department in accordance with the procedure described in Condition No. 11 for the appeal of a notice of Violation, but only on the bases of whether a particular alternative fuel is technologically or economically feasible.*

**Current Status/Comments** – An annual report showing the compliance with each component of Condition 77 should be prepared and submitted to the TAC.

## 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. Review of design plans, specifications, engineering support documents, and City-approved plans were not provided for the monitor to verify compliance with all City and County CUP conditions.

The 2022 3rd 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

## (07-01-2022 through 09-30-2022)

Line #	Reference #	Mitigation #	City Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Second Quarter 2022												Third Quarter 2022											
					4/25/2022	Status*	Further Review Needed/Comments**	Resolved*	5/23/2022	Status*	Further Review Needed/Comments**	Resolved*	6/27/2022	Status*	Further Review Needed/Comments**	Resolved*	7/25/2022	Status*	Further Review Needed/Comments**	Resolved*	8/22/2022	Status*	Further Review Needed/Comments**	Resolved*	9/19/2022	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	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
9	Q - B.2.c.		Ancillary Uses and Facilities	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
10			Ancillary Uses and Facilities																									
11	Q - B.2.d (3)		10 Year Phase Review	2015	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	
16	Q - C.3.g.		Paved Access Roads	ongoing	✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
17	Q - C.3.h.		Surfacing of Access Roads	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
18	Q - C.5.		Graffiti Removal and Deterrence	ongoing	✓	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-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
20	Q - C.10.d. (1)		Alternative Fuel Vehicles	status																								
21	Q - C.10.d. (2)		Alternative Fuel Refuse Collection Trucks	status																								

\* 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

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22	Q - C.12.a.		Technical Advisory Committee	info	/				/				/				/				/				/			
23	Q - C.12.c.		Contract for Mitigation Monitoring	info	/				/				/				/				/				/			
24	Q - C.12.c.		Contract for Mitigation Monitoring-5 years	info	/				/				/				/				/				/			
25																												
26	T - 4		Fire Plan	status	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
27	T - 5.j.		Trip Diversion	status	✓	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-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
31	M - 4.1.4	11	Post-5.0 Earthquake Analysis	upon event	✓	C	NONE		✓	C	NONE		✓	C	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	
33	M - 4.2.12		Heavy Equipment Operations	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
34	M - 4.2.12	28	Site Erosion-Cover	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
35	M - 4.2.12		Site Erosion-Cell Height	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
36	M - 4.2.12		Site Erosion-Sealant	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
37	M - 4.2.13	29	LFG Control Measures	ongoing	/		I-d		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i	
38	M - 4.2.13	30	Operational Odor Control Techniques	ongoing	/		I-d		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i	
39	M - 4.2.13	31	Solid Waste Compaction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
40	M - 4.2.13	32	LFG Collection and Recovery System	ongoing	/		I-d		/		I-e		/		I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
41	M - 4.2.13	33	Odor Control Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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42	M - 4.2.13	34	Odor/LFG Monitoring	ongoing	/		I-d		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i	
43			Periodic LFG Monitoring		/		I-d		/		I-e		/		I-f		/		I-g		/		I-h		/		I-i	
44	M - 4.3.2	52	LFG Migration Mitigation	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
45	M - 4.3.2	57	Dust Control Water	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
46	M - 4.4.2	69	Offsite Mitigation Sites	status	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
47	M - 4.4.2	70	Purchasing Wetland Credit	status	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
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	
50	M - 4.7.1	86	Open Space Buffer Area	ongoing	✓	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	
52	M - 4.9.3	107	Litter/Debris Containment	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
53	M - 4.9.3	108	Vehicle Tarping Requirements	ongoing	✓	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	
55	M - 4.9.3	110	Illegal Dumping Activities	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
56	M - 4.9.3	111	Radio Dispatch Litter Control	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
57	M - 4.9.3	112	Litter Control	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
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	
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	
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	

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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	
64																												
65	Civil & Geotechnical Engineer																											
66																												
67																												
68	M - 4.1.1	2	Grading Outside of Conceptual Grading Plan Area	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	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-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
71	M - 4.1.1	5	Grading Activity Compliance	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
72	M - 4.1.2	8	Landslide Guidelines	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
76	M - 4.1.5	12	Geologic Hazards - Liquefaction	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	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	
80	M - 4.1.6	16	Cut and Fill Slope Gradients	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
81	M - 4.1.6	17	Final Slope Factors of Safety	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
82	M - 4.1.6	18	Survey Monuments	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
83	M - 4.3.2	47	Landfill Liner	ongoing																								

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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	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
88	M - 4.14.1	155	Access Roadway Grade	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
89	M - 4.18	178	Landfill Elevation Exceedance	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
90																												
91	Hydrologist																											
92																												
93																												
94	M - 4.1.4	11	Earthquake Operations Checklist	upon event	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
95	M - 4.3.1	36	Surface Water Infiltration Minimization	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
96	M - 4.3.1	37	Surface Drainage Systems	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
97	M - 4.3.1	38	Permanent/Temporary Ditches	ongoing	✓	C	I-d		✓	C	I-e		✓	FRN	I-f		✓	C	I-g		✓	C	I-h		✓	FRN	I-i	
98	M - 4.3.1	39	Drainage Protection	ongoing	✓	C	I-d		✓	C	I-e		✓	FRN	I-f		✓	C	I-g		✓	C	I-h		✓	FRN	I-i	
99	M - 4.3.1	40	SWRCB Permit Coverage	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
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-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
103	M - 4.3.1	44	Final Landfill Cover	ongoing																								
104	M - 4.3.1	45	Erosion Control Plan	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
105	M - 4.3.1	46	Preventive Maintenance Program	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	

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106	M - 4.3.2	49	Interception of Groundwater Seepage	ongoing	✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE	
107	M - 4.3.2	50	LCRS/Leachate Monitoring	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
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-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
114	M - 4.2.11	23	Revegetation/Excavation	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
115	M - 4.2.12		Temporary Vegetation Cover	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
116	M - 4.4.1	60	Coastal Sage Scrub Mitigation Plan	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
117	M - 4.4.1	61	Coastal Sage Scrub Seeding	ongoing																								
118	M - 4.4.1	62	Mariposa Lily Mitigation Plan	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
119	M - 4.4.1	63	San Diego Horned Lizard Mitigation	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
120	M - 4.4.1	64	California Gnatcatcher Surveys	ongoing	/				/				/				/				/				/			
121	M - 4.4.1	65	Least Bell's Vireo Surveys	ongoing	/				/				/				/				/				/			
122	M - 4.4.1	66	Western Burrowing Owl Surveys	ongoing	/				/				/				/				/				/			
123	M - 4.4.1	67	Migratory Bird Treaty Act	ongoing	/				/				/				/				/				/			
124	M - 4.4.1	68	Raptor Nests Habitat	ongoing	/				/				/				/				/				/			
125	M - 4.4.3	72	Native Tree Mitigation	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
126	M - 4.4.3	73	Nonnative Tree Mitigation	status	✓	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	

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128	M - 4.4.3	75	Tree Planting Mitigation Site Prep	ongoing	✓	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	
130	M - 4.4.3	77	Backfill Material	ongoing	✓	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	
132	M - 4.4.3	79	Tree Area Mulching	ongoing	✓	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	
134	M - 4.4.3	81	Irrigation System	ongoing	✓	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-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
136	M - 4.9.2	96	Vector Activity Monitoring	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
137	M - 4.9.2	97	Vector Elimination	ongoing	✓	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	
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	
142	M - 4.9.2	102	Storage of Vector-Attracting Items	ongoing																								
143	M - 4.9.2	103	Salvaged Material Storage-Vector Control	ongoing	✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE	
144	M - 4.9.2	104	Periodic Vector Inspections	ongoing																								
145	M - 4.9.2	105	Implementation of Vector Control Measures	ongoing																								
146																												
147	Air Quality & Noise Specialist																											
148																												
149																												

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150	M - 4.2.11	19	Emissions Mitigation Measures	ongoing	✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	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	
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	
154	M - 4.2.11	22	Grading-Dust Reduction	ongoing	✓	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	
156	M - 4.2.12		Construction Curtailing due to Pollution	ongoing	/	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	✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE	
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	
169																												
170	Hydrology, Hazardous Waste / Risk of Upset																											

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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	
175	M - 4.3.2	59	Underground Fuel Storage	ongoing	/	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													✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
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	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE	
183	M - 4.9.4	123	Personal Protective Equipment	ongoing																								
184	M - 4.9.4	125	Site Access/Fencing	ongoing	✓	C	NONE		✓	C	NONE		✓	FRN	I-f		✓	C	NONE		✓	C	NONE		✓	FRN	I-i	
185	M - 4.14.1	147	Fire Response Capabilities	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
186	M - 4.14.1	148	Hydrant Installation	ongoing																								
187																												
188	Archaeologist																											
189																												
190																												
191	M - 4.19.1	183	Archaeological Resurvey	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
192	M - 4.19.1	184	Onsite Archaeologist	ongoing	✓	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	

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194	M - 4.19.1	186	Archaeological Resources	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
195																												
196	Paleontologist																											
197																												
198																												
199	M - 4.19.2	187	Paleontological Resources Resurvey	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
200	M - 4.19.2	188	Paleontological Resources Excavation	ongoing	/	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	
202	M - 4.19.2	190	Paleontological Resources Recovery	ongoing																								
203	M - 4.19.2	191	Paleontological Resources Inspection	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	

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

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25	Permittee Fees - 69	69	Permittee Fees-Contributions	info	/				/				/				/				/				/											
26	Permittee Fees - 70	70	Permittee Fees	info	/				/				/				/				/				/											
27	Permittee Fees - 72	72	Permittee Fees	info	/				/				/				/				/				/											
28	Alternative Fuel Vehicles - 77.A	77.A	Alternative Fuel Vehicles-Light Duty	status	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-i					
29	Alternative Fuel Vehicles - 77.B	77.B	Alternative Fuel Vehicles-Refuse/Collection Trucks	status	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-i					
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	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-i					
33	Alternative Fuel Vehicles - 77.F	77.F	Alternative Fuel Vehicles-Non-diesel Truck Trip Requirements	status	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-i					
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	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-i					
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	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-i					
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-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i		✓	FRN	I-i					

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47	Groundwater - 3.13		Groundwater-LFG Migration Mitigation	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
48	Groundwater - 3.14		Groundwater-Monitoring Wells	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
49	BIOTA – 4.05		Annual Fee Submission for SEA Studies	status	/				/				/				/				/				/			
50	BIOTA – 4.06		Buffer Zone Maintenance as Nature Preserve	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
51	BIOTA – 4.07		Buffer Zone Maintenance-Vegetation	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
52	BIOTA – 4.08		Ridgeline Maintenance-Remain Undisturbed	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
53	BIOTA – 4.47		Cleaning of Equipment	ongoing	✓	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	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
56	BIOTA – 4.50		Vector Activity Monitoring	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
57	Air Quality - 6.03		Dust Emission Minimization	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
58	Air Quality - 6.04		Usage of Cut Material for Cover	ongoing	✓	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	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
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																								

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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	
73	Odor/Landfill Gas – 7.02		Landfill Gas Collection System	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
74	Odor/Landfill Gas – 7.04		Gas Collection/Flare System Risk Mitigation	ongoing																								
75	Odor/Landfill Gas – 7.05		Wellhead Awareness	status	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
76	Odor/Landfill Gas – 7.06		Odor Control Measures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
77	Odor/Landfill Gas – 7.07		Gas Recovery and Sale	status	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
78	Traffic/Circulation – 8.03		Street Light Installation	status	✓	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	
88	Visual – 10.11		Solid Waste Load Procedures-Improperly Covered/Contained	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
89	Visual – 10.11		Debris Removal at Entrance	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
90	Visual – 10.11		Litter Control-Fencing	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
91	Visual – 10.11		Periodic Litter Pickup	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	

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92	Visual – 10.11		Litter Control-Additional Measures	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i									
93	Visual – 10.12		Discharge Control/Litter Recovery	status																																
94	Water Conserv. - 11.01		Water Conservation	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i									
95	Recycling - 14.01		On-site Waste Diversion/Recycling	ongoing	✓	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	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i									
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	✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE									
104	Landfill Operation - 18.7		Graffiti Removal/Deterrent Plan	ongoing	✓	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	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i									
127																																				
128	Geology - 1.01		Survey Monument Locations	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i									
129	Geology - 1.02		Seismic Design	ongoing																																
130	Geology - 1.03		Maximum Refuse Slope Gradients	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i									
131	Geology - 1.04		Maximum Refuse Slope Gradients	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i									
132	Geology - 1.05		Unsuitable Material Procedures	ongoing																																

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133	Geology - 1.06		Grading Activities Procedures	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
134	Geology - 1.07		Grading Activities Procedures	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
135	Geology - 1.09		Outer Perimeter Ridgeline Requirements	info	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
136	Geology - 1.12		Soil Stabilization	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
137	Geology - 1.16		Checklists/Surveys Following Earthquake	upon event	✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE		✓	NA	NONE	
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	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
142	Surface Water - 2.05		Underdrain Requirements	ongoing														✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i
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														✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i
147	Visual – 10.01		Landfill Elevations	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
148	Visual – 10.02		Final Fill Elevations	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
149																												
150	Hydrologist																											
151																												
152																												
153	Grading & Drainage - 38	38	Installation of Drainage Structures	ongoing																								
154																												
155	Geology - 1.17		Landfill Design/Construction-Seismic	ongoing																								
156	Surface Water - 2.01		Surface Water Runoff Interception	ongoing																								

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157	Surface Water - 2.02		Surface Water Runoff Collection	ongoing																								
158	Surface Water - 2.03		Surface Drainage Control-Maintenance	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
159	Surface Water - 2.04		Sedimentation Basin Capabilities	ongoing																								
160	Surface Water - 2.05		Underdrain Placement	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
161	Surface Water - 2.07		Drainage Control System Design Approval	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
162	Surface Water - 2.08		Surface Water Runoff-Drainage System	ongoing																								
163	Surface Water - 2.10		Surface Water Collection System-Monitoring	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
164	Surface Water - 2.11		Surface Water Quality-Collection/Monitoring	ongoing																								
165	Surface Water - 2.12		Permanent/Temporary Drainage Facilities	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
166	Surface Water - 2.13		Permanent/Temporary Drainage Facilities	ongoing																								
167	Surface Water - 2.14		Erosion Control Plan	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
168	Groundwater - 3.03		Interception of Groundwater Seepage	ongoing																								
169	Groundwater - 3.06		Monitoring Wells	ongoing																								
170																												
171	Biologist																											
172																												
173																												
174	Revegetation - 44	44	Revegetation/Cover Requirements	ongoing																								
175	Revegetation - 44.A	44.A	Temporary Hydroseed Vegetation	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
176	Revegetation - 44.B	44.B	Interim Reclamation/Revegetation Plan-Sold Waste	ongoing																								
177	Revegetation - 44.D	44.D	Final Fill Slope Requirements	ongoing																								
178	Revegetation - 44.E	44.E		ongoing																								
179																												
180	Geology - 1.13		Drainage Plan Approval	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	

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181	Geology - 1.14		Personnel Retention for Monitoring Soil Erosion	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
182	Groundwater - 3.11		Irrigation/Revegetation Management- Personnel Retention	ongoing																								
183	BIOTA – 4.10		Oak Tree Permit	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
184	BIOTA – 4.11		Oak Tree Mitigation Plan	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
185	BIOTA – 4.13		Oak Tree Mitigation Counting	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
186	BIOTA – 4.20		Poultry Wire Screen	ongoing	✓	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	
188	BIOTA – 4.27		Coastal Sage Scrub Mitigation Plan	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
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	
191	BIOTA – 4.30		California Gnatcatcher Surveys	ongoing	✓	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	
193	BIOTA – 4.32		Western Burrowing Owl Surveys	ongoing	✓	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	
195	BIOTA – 4.34		Raptor Nests Habitat	ongoing	✓	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-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
202	BIOTA – 4.43		Replacement Riparian Habitat	status	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
203	Air Quality - 6.02		Dust Control	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
204	Visual – 10.06		Upper Ridge Planting/Revegetation	ongoing																								

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205	Visual – 10.07		Tree Planting Around Perimeter	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
206	Visual – 10.08		Cover/Revegetation Requirements	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
207	Visual – 10.08		Solid Waste Disposal Procedures	ongoing	✓	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	
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	
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	
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	
215																												
216	Air Quality & Noise Specialist																											
217																												
218																												
219	Fugitive Dust - 45.F	45.F	Fugitive Dust Monitoring	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
220	Fugitive Dust - 45.I	45.I	Paved Roads-Cleaning	ongoing	✓	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	
226	Air Quality – 6.01		Working Face Requirements	ongoing	✓	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	

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228	Air Quality – 6.01		Soil Stockpile Requirements	ongoing	✓	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	
230	Air Quality – 6.01		Soil Sealant	ongoing																								
231	Air Quality – 6.01		Dust Emissions-Road Maintenance	ongoing	✓	C	I-d		✓	C	I-e		✓	C	I-f		✓	C	I-g		✓	C	I-h		✓	C	I-i	
232	Air Quality – 6.01		Access Roads-Paving	ongoing	✓	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	
234	Air Quality – 6.01		Water Tanks/Piping Maintenance	ongoing	✓	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	
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	
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																								

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(07-01-2022 through 09-30-2022)

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Second Quarter 2022												Third Quarter 2022											
					4/25/2022	Status*	Further Review Needed/Comments**	Resolved*	5/23/2022	Status*	Further Review Needed/Comments**	Resolved*	6/27/2022	Status*	Further Review Needed/Comments**	Resolved*	7/25/2022	Status*	Further Review Needed/Comments**	Resolved*	8/22/2022	Status*	Further Review Needed/Comments**	Resolved*	9/19/2022	Status*	Further Review Needed/Comments**	Resolved*
253	Groundwater - 3.15		Underground Diesel Fuel Storage Tanks	ongoing	/	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	
255	Fire Service - 12.03		On-site Fire Response Capabilities-Roads/Water	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
256	Fire Service - 12.04		On-site Fuel Storage Tanks-Permit Issuance	ongoing	✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE		✓	FRN	NONE	
257	Fire Service - 12.05		Building Limits	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
258	Fire Service - 12.06		Methane Gas Monitoring-On-site Structures	ongoing	✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE		✓	C	NONE	
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	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
276	IMP - Part VII.B	IMP7	Archaeological/Paleontological Report Submission	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	

\* C = Compliant, NC = Non-Compliant, FRN = Further Review Needed, R = Resolved

\*\* See Appendix I for Comments

Checkmark = Condition or mitigation was monitored

/ = Yearly or non-ongoing monitoring frequency

# Sunshine Canyon Landfill County Mitigation Monitoring Summary

(07-01-2022 through 09-30-2022)

Line #	Reference #	Mitigation #	County Mitigation Measures and Conditions Monitored by Discipline	Monitoring Frequency	Second Quarter 2022												Third Quarter 2022											
					4/25/2022	Status*	Further Review Needed/Comments**	Resolved*	5/23/2022	Status*	Further Review Needed/Comments**	Resolved*	6/27/2022	Status*	Further Review Needed/Comments**	Resolved*	7/25/2022	Status*	Further Review Needed/Comments**	Resolved*	8/22/2022	Status*	Further Review Needed/Comments**	Resolved*	9/19/2022	Status*	Further Review Needed/Comments**	Resolved*
277	Archaeological – 5.01		Archaeological Resurvey	ongoing	/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE		/	NA	NONE	
278	Archaeological – 5.02		Onsite Archaeologist	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
279	Archaeological – 5.03		Onsite Paleontologist	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
280	Archaeological – 5.04		Archaeological/Paleontological Identification Instruction	ongoing	/	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	
282																												
283	Paleontologist																											
284																												
285																												
286	Ecological Significance - 62	62	Archaeological/Paleontological -Material Identification/Conservation	ongoing	✓	FRN	I-d		✓	FRN	I-e		✓	FRN	I-f		✓	FRN	I-g		✓	FRN	I-h		✓	FRN	I-i	
287	IMP - Part VII.B	IMP7	Archaeological/Paleontological-Report Submission	ongoing																								

\* 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

## **Appendix I**

### **Further Review Needed Comments: Reference I-g through I-i Third Quarter 2022 Site Visits**

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Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	Q – B.2.c		City Planning	I-g through I-i: There was no grading outside of the approved landfill development limits during the 3rd Quarter. The grading that occurred was for construction of the final main access road and drainage channel around the road. The road realignment was not within the Sunshine Canyon waste fill limits but is in the CUP-approved areas for ancillary uses. The road realignment also included a new sedimentation basin and the removal of a portion of the existing terminal basin and the westside inlet channels to the basin. This was in preparation for the construction of a final toe berm. In the 3rd Quarter, the new access road had soil placed to near final elevations from the entrance on San Fernando Road to the oil field road above the basin. There was no soil compaction equipment except for soil haul trucks. The new road construction and final toe berm will need a substantial amount more soil importation. The completion of these improvements is scheduled for 2023. The soil quantity trucked in was not being recorded at the scales nor by a field observer. Cell CC-4 Part 3 and CC-4 Part 4A and 4B were the only areas accepting waste during the 3rd Quarter. ADC was being used at the active disposal areas. ADC was covered with soil on Saturdays.
		Geology - 1.07	County DPW EPD/SCL-LEA	I-g through I-i: See Q – B.2.c above.
		Geology - 1.12	County DPW EPD/SCL-LEA	I-g through I-i: See Q – B.2.c above.
	Q - C.3.h		City Planning	I-g through I-i: In the 3rd Quarter, localized dust clouds occurred on dirt roads to and on the County top deck when waste hauling transfer and packer trucks used the dirt roads going to the active waste disposal areas and when soil importation trucks were delivering soil. The dust was not observed leaving the site.
	Q - C.10.c		City Planning	I-g: The gas-to-energy plant meter was not operating. Flare 1: 1880 SCFM; Flare 3: not operating; Flare 9: 3212 SCFM; Flare 10: not operating; Flare 11: 3139 SCFM. The total volume of landfill gas being recovered and flared was 8,231 SCFM.  I-h: The gas-to-energy plant was using 4524 SCFM of recovered landfill gas. Flare 1: not monitored due to blocked access; Flare 3: not operating; Flare 9: not operating; Flare 10: 3874 SCFM; Flare 11: 5008 SCFM. The total volume of landfill gas being recovered was 13,406 SCFM not including Flare 1, which is typically 2700 SCFM.  I-i: The gas-to-energy plant was using 8942 SCFM of recovered landfill gas. Flare 1: 1966 SCFM; Flare 3: 2300 SCFM; Flare 9: not operating; Flare 10: 2378 SCFM; Flare 11: 2454 SCFM. The total volume of landfill gas being recovered was 18,040 SCFM.  I-g through I-i: The monthly average quantity of landfill gas being recovered in the 3rd Quarter was approximately 18,000 SCFM, with the gas-to-energy plant monthly average usage approximately 8900 SCFM. Republic has stated that they are pursuing options for using the excess recovered gas that is now being flared.
		Odor/Landfill Gas - 7.07	County Planning/SCAQMD SCL-LEA	I-g through I-i: See Q - C.10.c above.
		Gas - 52	County DPW EPD/SCL-LEA County Forester Fire Warden	I-g through I-i: See Q - C.10.c above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager	T-4		City Planning, City Fire Department	I-g through I-i: An updated fire plan showing the new locations of all facilities and normal and emergency ingress and egress should be prepared and sent to the local City fire department station and City and County planning now that the office facilities have been moved to the new location and the realignment of the main access road and toe berm are under construction. Emergency egress should be posted for employees and customers.
		Fire Service - 12.03	County DPW EPD/SCL-LEA County Forester Fire Warden	I-g through I-i: See T-4 above.
	M - 4.1.1 / 4	M - Earth Resources	City Department of Building and Safety	I-g through I-i: The rainwater control system for the new access road and sedimentation basin has uncontrolled rainwater impact on the Gas Company's facility and San Fernando Road. Republic's final design and construction plans were not available to be monitored.
	M - 4.1.1 / 7		City Planning, DOGGR	I-g through I-i: 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 but inside the ridgeline of Sunshine Canyon.
		Re-abandonment Procedures	County Planning, County DPW EPD/SCL-LEA, DOGGR	I-g through I-i: See M - 4.1.1 / 7 above.
	M - 4.1.4 / 11	Post-5.0 Earthquake Analysis	City Planning	I-g through I-i: There were no earthquakes of 5.0 or greater during this monitoring period.
	M - 4.2.12 / 26 and 28		City Planning/SCAQMD	I-g through I-i: During the 3rd 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.
		Fugitive Dust - 45.F	County DPH/County LEA County DPW-EPD County Biologist	I-g through I-i: See M - 4.2.12 / 28 above.
	M - 4.2.13/ 29, 30, 32, 33, and 34		City Planning/SCL-LEA/SCAQMD	I-g through I-i: Compliance with these mitigation measures, concerning landfill gas monitoring and odor control and detection, is being monitored by a multi-agency team led by the SCAQMD. Only obvious gas emission sources, odorous operations related to gas and/or gas and landfill liquids, lack of cover, or exposed trash resulting in odor observed during the monitoring visit are reported.
		Amendment 45.N-4.a, 4.c, 4.d	County DPW-EPD	I-g through I-i: See M - 4.2.13/ 29, 30, 32, 34 above.
		Amendment 45.N-5	County DPW-EPD	I-g through I-i: See M - 4.2.13/ 29, 30, 32, 34 above.
	M - 4.2.13 / 33		City Planning/SCAQMD	I-g through I-i: On our random days of site visits during the 3rd Quarter, there were no landfill odors detected in the adjacent neighborhoods.
	M - 4.2.13 / 34		City Planning/SCAQMD	I-g through I-i: See M-4.2.13/29, 30, and 32 above.
		Odor/Landfill Gas - 7.06	County DPW-EPD/SCL-LEA/SCAQMD	I-g through I-i: See M-4.2.13/33 above.



Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Project Manager		Amendment 45.N - 4.a, 4.c, 4.d	County DPW-EPD	I-g through I-i: See M-4.2.13/29, 30, 32, and 34 above.
		Amendment 45.N - 5	County DPW-EPD	I-g through I-i: See M-4.2.13/29, 30, 32, and 34 above.
		Surface Water - 2.15	County DPW EPD/ LARWQCB, SCL- LEA	<p>I-g through I-i: 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 prior to COVID-19 restrictions and were available at the landfill's main office.</p> <p>In the 3rd Quarter, it was observed that vegetation was growing out of numerous cracks in the water retention basins and drainage conveyance channels' concrete. There were areas of the channels and basins that needed the growing vegetation to be removed, and repair of the concrete and sealing of cracks. These clean-up and maintenance tasks are put on the monthly preventative maintenance program work list. There were two areas of the eastside channel that were blocked with mud and rock, debris and brush. One was fully blocked and the other one with minimal flow capacity. A concrete channel wall south of Basin C has the soil supporting the wall washed away by rain.</p>
	M - 4.4.2/ 69		City Planning	I-g through I-i: The status on providing offsite wetland and riparian mitigation has not changed in the 3rd Quarter. The City was proceeding with writing and adopting 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 there has been no progress in finalizing and adopting the ordinance. Since the COVID-19 pandemic, progress has been suspended. The delay in the issuance of the City ordinance is delaying any progress in creating the required wetlands and riparian mitigation. Time extension letters from the US Corps of Engineers and the California Department of Fish and Wildlife were in place for 2019. New extension letters were not obtained since then. The Chatsworth Dam mitigation site needs to be evaluated as still being a potential mitigation site.
		Biota - 4.4.3	CDFW	I-g through I-i: See M - 4.4.2 / 69 above.
	M - 4.9.3 / 110		City Planning/City LEA	I-g through I-i: In the 3rd Quarter, there was no litter or illegal dumping observed in the adjacent neighborhood or on Sierra Highway.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Civil and Geotechnical Engineer	M - 4.1.1 / 2		City Building and Safety City Planning	I-g through I-i: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 4		City Planning/LARWQCB Cal Recycle	I-g through I-i: See M - 4.1.1 / 5 below.
	M - 4.1.1 / 5		City Planning/ LARWQCB Cal Recycle	I-g through I-i: There was no grading outside of the approved landfill development limits during the 3rd Quarter. Grading for the road realignment was done in the small valley south of the current main access road. The use was approved in the original CUP for ancillary uses. The construction plans and supporting geotechnical reports were reviewed and approved by City Planning and the City Building Department. The City also approved brush and tree clearance and hillside grading. The technical reports and detailed plans were not available for review. Compliance with County Geology - 1.07 was not able to be verified by the monitor.
		Geology - 1.07	County DPW EPD/ County LEA	I-g through I-i: See M - 4.1.1 / 5 above.
	M - 4.1.5 / 12		City Planning/LARWQCB Cal Recycle	I-g through I-i: See M - 4.1.1 / 5 above.
	M - 4.1.6 / 18			I-g through I-i: 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. All PVC boundary markers need to be verified and replaced if missing.
	M - 4.14.1 / 155		City Planning/Cal Recycle PW-BOE LADBS City LEA	I-g through I-i: Access roads were being maintained around the working area for emergency access. The final perimeter access road construction on the westside was completed.
	M - 4.18 / 178		City Planning/City LEA	I-g through I-i: A map showing areas that are at the final elevations and which should have final cover should be available for review. Documents showing current filled elevations should also be available onsite for review.
		Visual - 10.01 Visual - 10.02	County DPW EPD/ LARWQCB SCL-LEA	I-g through I-i: See M - 4.18 / 178 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Civil and Geotechnical Engineer</b>	M - 4.3.1 / 37, 38		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE	I-g through I-i: Surface drainage systems were in place to intercept or divert rainwater away from prior landfill cells and current filling operations. Most of these were temporary systems in active areas, and most conveyance V-ditches were unlined. The construction of the final toe berm and main access road realignment project had started. This is a two-year project and includes a new basin, modification of the terminal basin, and the construction of new drainage channels, and possibly a new upstream basin from the terminal basin. The road realignment will entail the construction of a new main access road, a 350,000 cubic-foot sedimentation basin, and drainage improvements in the ravine south of the current entrance and modifications to the terminal basin's size and inlet sources. The design plans and design details and calculations were submitted to the City for permit approval. The design plans and engineering reports were not available for review by the monitor nor submitted to the LACDPW for approval. Compliance with Surface Water - 2.03 could not be verified. An engineering evaluation of the total site's surface drainage system should be done which reflects the current system's modifications. Onsite drainage channels should be designed per CCR, Title 23, Division 3, Chapter 15, Article 3, Section 2533(C), and County of Los Angeles Public Works Department, Flood Control requirements.
<b>Hydrologist</b>		Surface Water - 2.03 Surface Water - 2.12	County DPW EPD/ LARWQCB SCL-LEA	I-g through I-i: See M - 4.3.1 / 37, 38 above.
	M - 4.3.1 / 39		City Planning/LARWQCB Cal Recycle	I-g through I-i: See M - 4.3.1 / 37, 38 above.
	M - 4.3.1 / 40		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-g through I-i: See M - 4.3.1 / 37, 38 above.
	M - 4.3.1 / 43		City Planning/ LARWQCB CalRecycle SCL-LEA PW-BOE LADBS	I-g through I-i: All of the basins were cleared of sediment prior to October 1st. The channels were free of sediment on all but the eastside drainage system. Those channels had vegetation growing in the concrete, brush, and spots with an accumulation of sediment and windblown litter blocking water flow. In the 3rd Quarter, major modifications were made to the terminal basin and inlet channels. No hydrology reports were available to the monitor or the County.
		Surface Water - 2.10	LARWQCB / County DPW EPD	I-g through I-i: See M - 4.3.1 / 37, 38 and 43 above.
		Surface Water - 2.14	LARWQCB / County DPW EPD	I-g through I-i: 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-g through I-i: See 2.15 above.

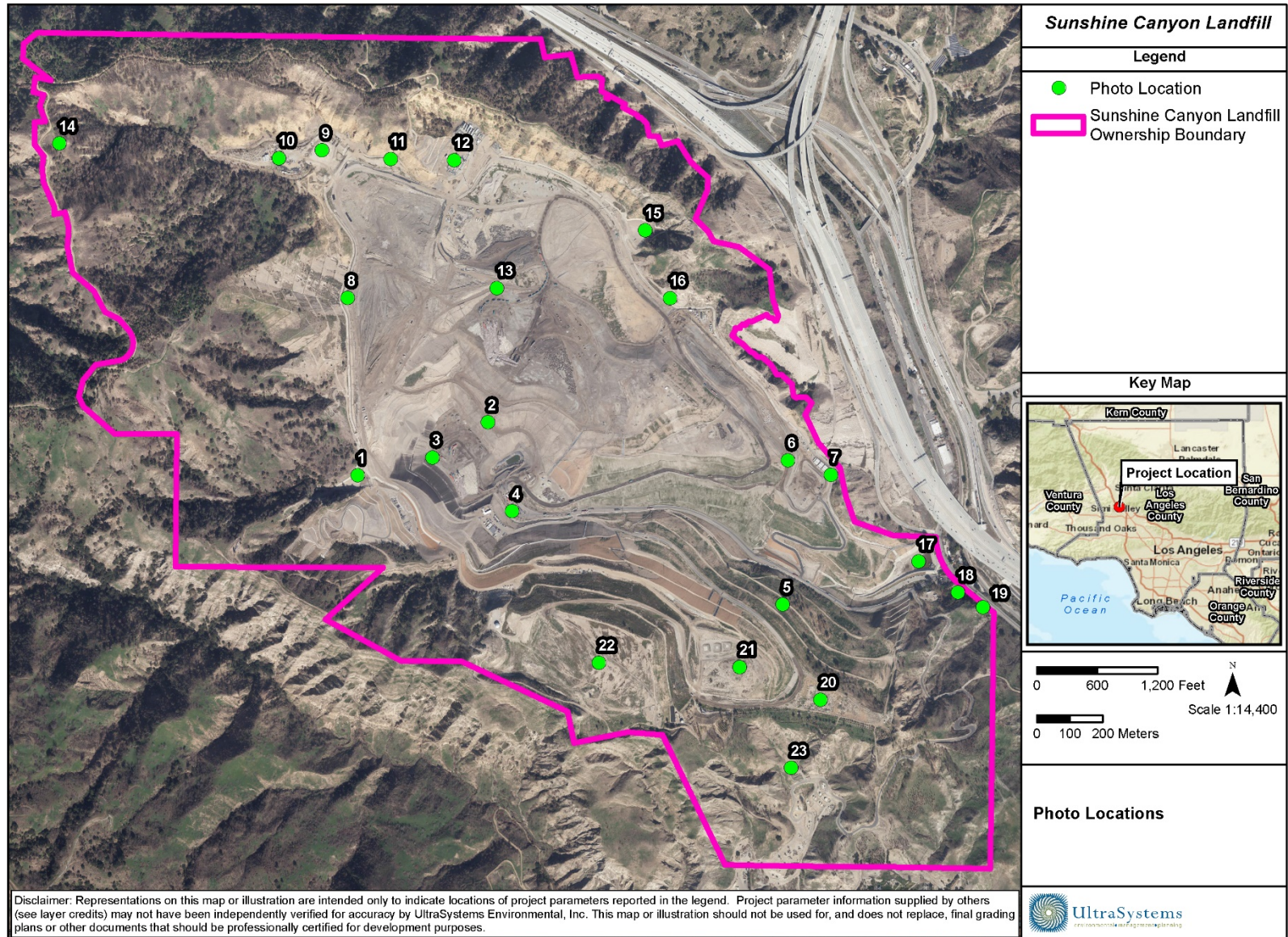
Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
Hydrologist	M - 4.3.2 / 50		City Planning/ LARWQCB CalRecycle SCL-LEA	I-g through I-i: The old City North top deck has a tank farm of 16 Alder storage tanks 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 nor the sewer connection during the 3rd Quarter. Tank farm liquids were being treated with 30% hydrogen peroxide at the tank farm and at the sewer connection.
Biologist	M - 4.1.1 / 6		City Planning/ LARWQCB CalRecycle SCL-LEA LADBS	I-g through I-i: See M - 4.2.12 / 28 above.
		Geology - 1.14	LARWQCB/ County Forester	I-g through I-i: See M - 4.2.12 / 28 above.
	M - 4.2.11 / 23		City Planning	I-g through I-i: See M - 4.2.12 / 28 above.
		Geology - 1.13	County DPW EPD/ County Forester LARWQCB	I-g through I-i: See M - 4.2.12 / 28 above.
	M - 4.2.12		SCL-LEA/ City Planning	I-g through I-i: See M - 4.2.12 / 28 above.
		Revegetation - 44.A	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-g through I-i: See M - 4.2.12 / 28 above.
		Revegetation - 44.F	SCL-LEA/ County DPW EPD Regional Planning County Biologist	I-g through I-i: See M - 4.2.12 / 28 above.
		Biota - 4.42	SCL-LEA	I-g through I-i: See M - 4.2.12 / 28 above.
		Air Quality - 6.02	SCAQMD/ SCL-LEA	I-g through I-i: See M - 4.2.12 / 28 above.
		Visual - 10.08	County Forester	I-g through I-i: See M - 4.2.12 / 28 above.

Discipline	City Condition Reference # / Mitigation #	County Condition Reference # / Mitigation #	Responsible Agency	Further Review Needed – Comments
<b>Biologist</b>	M - 4.4.1 / 60		City Planning	I-i through I-i: During the 3rd Quarter, City sage mitigation areas decks B and C were being maintained by the removal of non-native vegetation. Native vegetation was doing well. Bare spots are being filled in from planted native plants. The condition of the PM-10 oak trees was still being evaluated by Republic's consulting biologists. The yearly mitigation tree status report was being prepared. There was a substantial amount of dead PM-10 trees observed by the monitor. A schedule for replacement is waiting for the biologist's report to be issued. There was no activity on the County sage mitigation areas. Native plants were doing well in the County sage area, repopulating in the areas where they naturally came back. No mitigation revegetation activity was done for this area in the 3rd Quarter.
		Biota - 4.27	County LEA/CDFW	I-g through I-i: See M - 4.4.1 / 60 above.
		Biota - 4.10	County LEA/CDFW	I-g through I-i: An updated mitigation tree report evaluating the impacts of the Saddleridge Fire and other impacts has not yet been issued. The number and type of trees that will need to be replaced will be addressed in the report.
	M - 4.4.3 / 72		City Planning	I-g through I-i: See Biota - 4.10 above.
	M - 4.9.4 / 121		City Planning/Cal Recycle Cal OSHA LAFD City LEA	I-g through I-i: See T-4 above.
	M-4.9.4/ 125		City Planning/ CalRecycle Cal OSHA SCL-LEA	I-g through I-i: During the 3rd Quarter of 2022, the north perimeter gate was observed to be locked.
<b>Paleontologist</b>	M-4.19.2/ 191		City Planning	I-g through I-i: During the 3rd Quarter, the only grading in native undisturbed areas that required archeological and paleontological monitoring was in the southeast ravine where brush and tree clearance and rough grading was done for the development of the new main access road realignment.
		Ecological Significance 62	County Planning	I-g through I-i: See M-4.19.2/ 191 above.

## Appendix II

### Relevant Site Photos

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Path: \\GIS\SVR\GIS\Projects\5800\_Sunshine\_Canyon\MXD\PhotoLocations\5800\_Sunshine\_Canyon\_PhotoLocations\_2020\_10\_12.mxd  
 Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community; CAL FIRE, 2007; Republic, March 2020; LA County Assessor, 2020

October 12, 2020

## Photo Location Map Key

Map Location	Title	Photo Number
1	Basin A	1 – 14
2	Working Area, CC4 Part 1/2	–
3	Working Area, CC-4 Part 3	–
4	Working Area, CC-4 Part 4A	15 – 93
5	Closure Turf	94 – 107
6	Office and Scales Location	108 – 130
7	Alder Tank Liquids Treatment System	131 – 147
8	County Sage Mitigation Area and Westside Drainage Channels	148 – 166
9	Basin D	167 – 174
10	Basin D Material Storage Area	175 – 183
11	Basin D Outlet Channel	–
12	Flares 9, 10, 11 and Gas-to-Energy Facility	184 – 215
13	County Top Deck	216 – 246
14	North Access Road	247 – 251
15	Basin B	252 – 268
16	Eastside Drainage Channel	269 – 322
17	Terminal Basin	323 – 430
18	Greywater Sewer Connection	–
19	Retaining Wall at San Fernando Road	–
20	Sage Mitigation, Deck C	431 – 439
21	Sage Mitigation, Deck B	440 – 442
22	Sage Mitigation, Deck A	–
23	Southern Ownership Buffer	–
–	General Site	443 – 543
–	Road Realignment	544 – 578
–	PM-10 Oak Trees	579 – 589





**Photo 1: Basin A: July 25, 2022**



**Photo 2: Basin A: July 25, 2022**



**Photo 3: Basin A: July 25, 2022**



**Photo 4: Basin A: July 25, 2022**





**Photo 5: Basin A: July 25, 2022**



**Photo 6: Basin A: July 25, 2022**



**Photo 7: Basin A: September 19, 2022**



**Photo 8: Basin A: September 19, 2022**





**Photo 9: Basin A: September 19, 2022**



**Photo 10: Basin A: September 19, 2022**



**Photo 11: Basin A: September 19, 2022**



**Photo 12: Basin A: September 19, 2022**





**Photo 13: Basin A: September 19, 2022**



**Photo 14: Basin A: September 19, 2022**



**Photo 15: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 16: Working Area, CC-4 Part 4A: July 25, 2022**





**Photo 17: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 18: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 19: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 20: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 21: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 22: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 23: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 24: Working Area, CC-4 Part 4A: July 25, 2022**





**Photo 25: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 27: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 26: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 28: Working Area, CC-4 Part 4A: July 25, 2022**





**Photo 29: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 30: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 31: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 32: Working Area, CC-4 Part 4A: July 25, 2022**





**Photo 33: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 34: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 35: Working Area, CC-4 Part 4A: July 25, 2022**



**Photo 36: Working Area, CC-4 Part 4A: August 22, 2022**





**Photo 37: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 39: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 38: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 40: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 41: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 42: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 43: Working Area, CC-4 Part 4A: August 22, 2022**

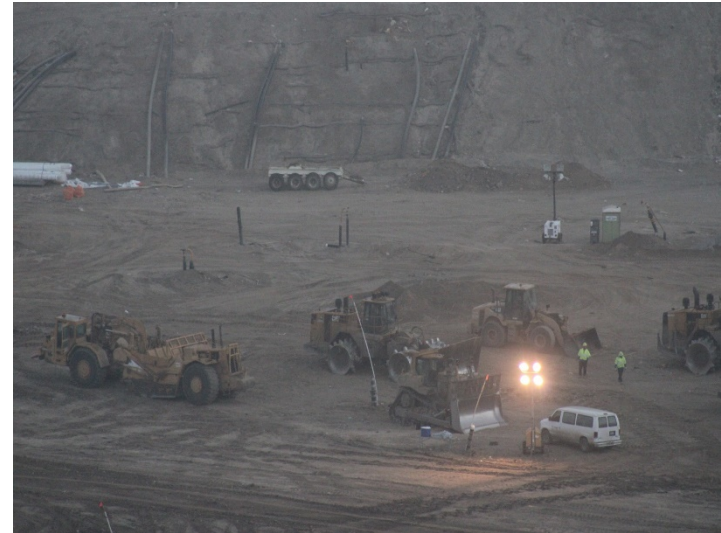


**Photo 44: Working Area, CC-4 Part 4A: August 22, 2022**





**Photo 45: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 46: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 47: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 48: Working Area, CC-4 Part 4A: August 22, 2022**





Photo 49: Working Area, CC-4 Part 4A: August 22, 2022



Photo 51: Working Area, CC-4 Part 4A: August 22, 2022



Photo 50: Working Area, CC-4 Part 4A: August 22, 2022



Photo 52: Working Area, CC-4 Part 4A: August 22, 2022





**Photo 53: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 54: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 55: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 56: Working Area, CC-4 Part 4A: August 22, 2022**





Photo 57: Working Area, CC-4 Part 4A: August 22, 2022



Photo 58: Working Area, CC-4 Part 4A: August 22, 2022



Photo 59: Working Area, CC-4 Part 4A: August 22, 2022



Photo 60: Working Area, CC-4 Part 4A: August 22, 2022





**Photo 61: Working Area, CC-4 Part 4A: August 22, 2022**



**Photo 62: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 63: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 64: Working Area, CC-4 Part 4A: September 19, 2022**





**Photo 65: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 66: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 67: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 68: Working Area, CC-4 Part 4A: September 19, 2022**





**Photo 69: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 70: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 71: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 72: Working Area, CC-4 Part 4A: September 19, 2022**





**Photo 73: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 74: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 75: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 76: Working Area, CC-4 Part 4A: September 19, 2022**





Photo 77: Working Area, CC-4 Part 4A: September 19, 2022



Photo 78: Working Area, CC-4 Part 4A: September 19, 2022



Photo 79: Working Area, CC-4 Part 4A: September 19, 2022



Photo 80: Working Area, CC-4 Part 4A: September 19, 2022





**Photo 81: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 82: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 83: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 84: Working Area, CC-4 Part 4A: September 19, 2022**





**Photo 85: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 86: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 87: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 88: Working Area, CC-4 Part 4A: September 19, 2022**





**Photo 89: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 90: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 91: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 92: Working Area, CC-4 Part 4A: September 19, 2022**





**Photo 93: Working Area, CC-4 Part 4A: September 19, 2022**



**Photo 94: Closure Turf: July 25, 2022**



**Photo 95: Closure Turf: July 25, 2022**



**Photo 96: Closure Turf: July 25, 2022**





**Photo 97: Closure Turf: July 25, 2022**



**Photo 98: Closure Turf: August 22, 2022**



**Photo 99: Closure Turf: August 22, 2022**



**Photo 100: Closure Turf: August 22, 2022**



**Photo 101: Closure Turf: August 22, 2022**



**Photo 102: Closure Turf: August 22, 2022**



**Photo 103: Closure Turf: August 22, 2022**



**Photo 104: Closure Turf: August 22, 2022**





**Photo 105: Closure Turf: September 19, 2022**



**Photo 106: Closure Turf: September 19, 2022**



**Photo 107: Closure Turf: September 19, 2022**



**Photo 108: Office and Scales Location: July 25, 2022**





**Photo 109: Office and Scales Location: July 25, 2022**



**Photo 110: Office and Scales Location: July 25, 2022**



**Photo 111: Office and Scales Location: July 25, 2022**



**Photo 112: Office and Scales Location: July 25, 2022**





**Photo 113: Office and Scales Location: July 25, 2022**



**Photo 114: Office and Scales Location: July 25, 2022**



**Photo 115: Office and Scales Location: July 25, 2022**



**Photo 116: Office and Scales Location: July 25, 2022**





**Photo 117: Office and Scales Location: August 22, 2022**



**Photo 118: Office and Scales Location: August 22, 2022**



**Photo 119: Office and Scales Location: August 22, 2022**



**Photo 120: Office and Scales Location: August 22, 2022**





**Photo 121: Office and Scales Location: August 22, 2022**



**Photo 122: Office and Scales Location: August 22, 2022**



**Photo 123: Office and Scales Location: August 22, 2022**



**Photo 124: Office and Scales Location: August 22, 2022**





**Photo 125: Office and Scales Location: September 19, 2022**



**Photo 126: Office and Scales Location: September 19, 2022**



**Photo 127: Office and Scales Location: September 19, 2022**



**Photo 128: Office and Scales Location: September 19, 2022**





**Photo 129: Office and Scales Location: September 19, 2022**



**Photo 130: Office and Scales Location: September 19, 2022**



**Photo 131: Alder Tank Liquids Treatment System:  
July 25, 2022**



**Photo 132: Alder Tank Liquids Treatment System:  
July 25, 2022**





**Photo 133: Alder Tank Liquids Treatment System:  
July 25, 2022**



**Photo 134: Alder Tank Liquids Treatment System:  
July 25, 2022**



**Photo 135: Alder Tank Liquids Treatment System:  
July 25, 2022**



**Photo 136: Alder Tank Liquids Treatment System:  
August 22, 2022**





**Photo 137: Alder Tank Liquids Treatment System:  
August 22, 2022**



**Photo 138: Alder Tank Liquids Treatment System:  
August 22, 2022**



**Photo 139: Alder Tank Liquids Treatment System:  
August 22, 2022**



**Photo 140: Alder Tank Liquids Treatment System:  
August 22, 2022**





**Photo 141: Alder Tank Liquids Treatment System:  
August 22, 2022**



**Photo 142: Alder Tank Liquids Treatment System:  
September 19, 2022**



**Photo 143: Alder Tank Liquids Treatment System:  
September 19, 2022**



**Photo 144: Alder Tank Liquids Treatment System:  
September 19, 2022**





**Photo 145: Alder Tank Liquids Treatment System:  
September 19, 2022**



**Photo 146: Alder Tank Liquids Treatment System:  
September 19, 2022**



**Photo 147: Alder Tank Liquids Treatment System:  
September 19, 2022**



**Photo 148: County Sage Mitigation Area and Westside  
Drainage Channels: July 25, 2022**





**Photo 149: County Sage Mitigation Area and Westside Drainage Channels: July 25, 2022**



**Photo 150: County Sage Mitigation Area and Westside Drainage Channels: July 25, 2022**



**Photo 151: County Sage Mitigation Area and Westside Drainage Channels: July 25, 2022**



**Photo 152: County Sage Mitigation Area and Westside Drainage Channels: July 25, 2022**





**Photo 153: County Sage Mitigation Area and Westside Drainage Channels: July 25, 2022**



**Photo 154: County Sage Mitigation Area and Westside Drainage Channels: July 25, 2022**



**Photo 155: County Sage Mitigation Area and Westside Drainage Channels: July 25, 2022**



**Photo 156: County Sage Mitigation Area and Westside Drainage Channels: July 25, 2022**





**Photo 157: County Sage Mitigation Area and Westside Drainage Channels: August 22, 2022**



**Photo 158: County Sage Mitigation Area and Westside Drainage Channels: August 22, 2022**



**Photo 159: County Sage Mitigation Area and Westside Drainage Channels: August 22, 2022**



**Photo 160: County Sage Mitigation Area and Westside Drainage Channels: September 19, 2022**





**Photo 161: County Sage Mitigation Area and Westside Drainage Channels: September 19, 2022**



**Photo 163: County Sage Mitigation Area and Westside Drainage Channels: September 19, 2022**



**Photo 162: County Sage Mitigation Area and Westside Drainage Channels: September 19, 2022**



**Photo 164: County Sage Mitigation Area and Westside Drainage Channels: September 19, 2022**





**Photo 165: County Sage Mitigation Area and Westside Drainage Channels: September 19, 2022**



**Photo 166: County Sage Mitigation Area and Westside Drainage Channels: September 19, 2022**



**Photo 167: Basin D: July 25, 2022**



**Photo 168: Basin D: July 25, 2022**





**Photo 169: Basin D: July 25, 2022**



**Photo 170: Basin D: August 22, 2022**



**Photo 171: Basin D: August 22, 2022**



**Photo 172: Basin D: August 22, 2022**





**Photo 173: Basin D: September 19, 2022**



**Photo 174: Basin D: September 19, 2022**



**Photo 175: Basin D Material Storage Area: July 25, 2022**



**Photo 176: Basin D Material Storage Area: July 25, 2022**





**Photo 177: Basin D Material Storage Area: August 22, 2022**



**Photo 178: Basin D Material Storage Area: August 22, 2022**



**Photo 179: Basin D Material Storage Area: August 22, 2022**



**Photo 180: Basin D Material Storage Area: August 22, 2022**





**Photo 181: Basin D Material Storage Area:  
September 19, 2022**



**Photo 182: Basin D Material Storage Area:  
September 19, 2022**



**Photo 183: Basin D Material Storage Area:  
September 19, 2022**



**Photo 184: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**





**Photo 185: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**



**Photo 186: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**



**Photo 187: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**



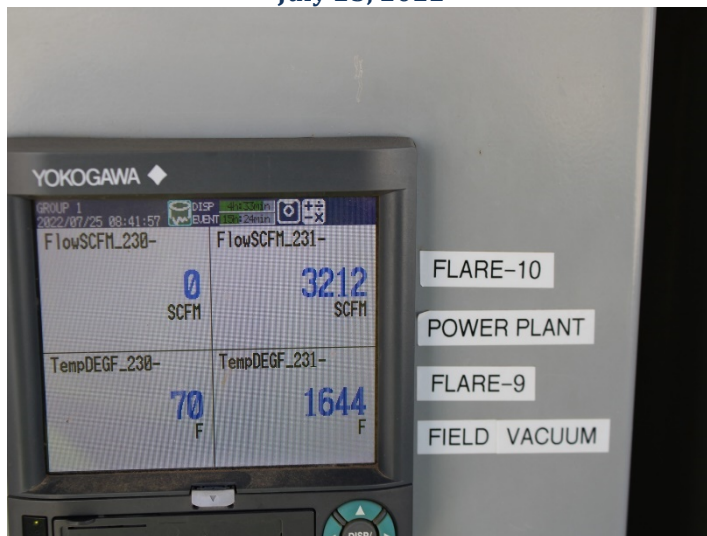
**Photo 188: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**



**Photo 189: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**



**Photo 190: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**



**Photo 191: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**



**Photo 192: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**





**Photo 193: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**



**Photo 194: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**



**Photo 195: Flares 9, 10, 11 and Gas-to-Energy Facility:  
July 25, 2022**



**Photo 196: Flares 9, 10, 11 and Gas-to-Energy Facility:  
August 22, 2022**





**Photo 197: Flares 9, 10, 11 and Gas-to-Energy Facility:  
August 22, 2022**



**Photo 198: Flares 9, 10, 11 and Gas-to-Energy Facility:  
August 22, 2022**

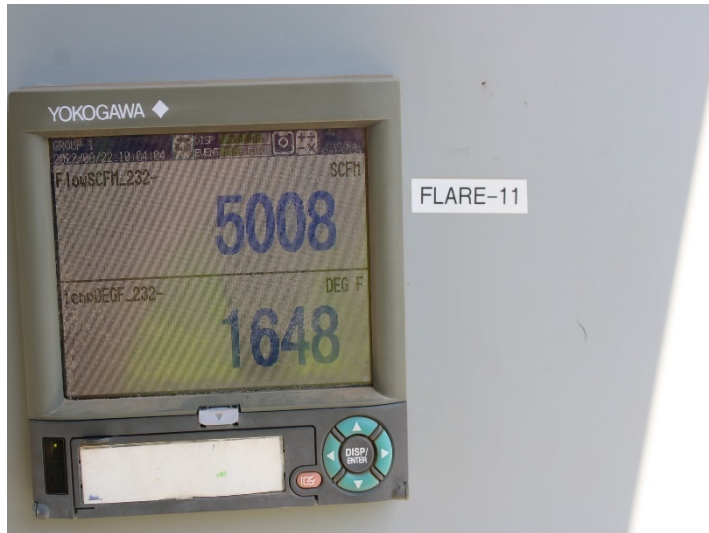


**Photo 199: Flares 9, 10, 11 and Gas-to-Energy Facility:  
August 22, 2022**



**Photo 200: Flares 9, 10, 11 and Gas-to-Energy Facility:  
August 22, 2022**





**Photo 201: Flares 9, 10, 11 and Gas-to-Energy Facility:  
August 22, 2022**



**Photo 202: Flares 9, 10, 11 and Gas-to-Energy Facility:  
August 22, 2022**



**Photo 203: Flares 9, 10, 11 and Gas-to-Energy Facility:  
August 22, 2022**



**Photo 204: Flares 9, 10, 11 and Gas-to-Energy Facility:  
August 22, 2022**





**Photo 205: Flares 9, 10, 11 and Gas-to-Energy Facility:  
September 19, 2022**



**Photo 206: Flares 9, 10, 11 and Gas-to-Energy Facility:  
September 19, 2022**



**Photo 207: Flares 9, 10, 11 and Gas-to-Energy Facility:  
September 19, 2022**



**Photo 208: Flares 9, 10, 11 and Gas-to-Energy Facility:  
September 19, 2022**



**Photo 209: Flares 9, 10, 11 and Gas-to-Energy Facility:  
September 19, 2022**



**Photo 210: Flares 9, 10, 11 and Gas-to-Energy Facility:  
September 19, 2022**



**Photo 211: Flares 9, 10, 11 and Gas-to-Energy Facility:  
September 19, 2022**



**Photo 212: Flares 9, 10, 11 and Gas-to-Energy Facility:  
September 19, 2022**





**Photo 213: Flares 9, 10, 11 and Gas-to-Energy Facility:  
September 19, 2022**



**Photo 214: Flares 9, 10, 11 and Gas-to-Energy Facility:  
September 19, 2022**



**Photo 215: Flares 9, 10, 11 and Gas-to-Energy Facility:  
September 19, 2022**



**Photo 216: County Top Deck: July 25, 2022**





**Photo 217: County Top Deck: July 25, 2022**



**Photo 218: County Top Deck: July 25, 2022**



**Photo 219: County Top Deck: July 25, 2022**



**Photo 220: County Top Deck: July 25, 2022**





**Photo 221: County Top Deck: July 25, 2022**



**Photo 222: County Top Deck: July 25, 2022**



**Photo 223: County Top Deck: August 22, 2022**



**Photo 224: County Top Deck: August 22, 2022**





**Photo 225: County Top Deck: August 22, 2022**



**Photo 226: County Top Deck: August 22, 2022**



**Photo 227: County Top Deck: August 22, 2022**



**Photo 228: County Top Deck: August 22, 2022**





**Photo 229: County Top Deck: August 22, 2022**



**Photo 230: County Top Deck: August 22, 2022**



**Photo 231: County Top Deck: August 22, 2022**



**Photo 232: County Top Deck: August 22, 2022**





**Photo 233: County Top Deck: August 22, 2022**



**Photo 234: County Top Deck: September 19, 2022**



**Photo 235: County Top Deck: September 19, 2022**



**Photo 236: County Top Deck: September 19, 2022**





**Photo 237: County Top Deck: September 19, 2022**



**Photo 238: County Top Deck: September 19, 2022**



**Photo 239: County Top Deck: September 19, 2022**



**Photo 240: County Top Deck: September 19, 2022**





**Photo 241: County Top Deck: September 19, 2022**



**Photo 242: County Top Deck: September 19, 2022**



**Photo 243: County Top Deck: September 19, 2022**



**Photo 244: County Top Deck: September 19, 2022**





**Photo 245: County Top Deck: September 19, 2022**



**Photo 246: County Top Deck: September 19, 2022**



**Photo 247: North Access Road: July 25, 2022**



**Photo 248: North Access Road: August 22, 2022**





**Photo 249: North Access Road: August 22, 2022**



**Photo 250: North Access Road: September 19, 2022**



**Photo 251: North Access Road: September 19, 2022**



**Photo 252: Basin B: July 25, 2022**





**Photo 253: Basin B: July 25, 2022**



**Photo 254: Basin B: July 25, 2022**



**Photo 255: Basin B: July 25, 2022**



**Photo 256: Basin B: July 25, 2022**





**Photo 257: Basin B: August 22, 2022**



**Photo 258: Basin B: August 22, 2022**



**Photo 259: Basin B: August 22, 2022**



**Photo 260: Basin B: August 22, 2022**





**Photo 261: Basin B: August 22, 2022**



**Photo 262: Basin B: August 22, 2022**



**Photo 263: Basin B: August 22, 2022**



**Photo 264: Basin B: September 19, 2022**





**Photo 265: Basin B: September 19, 2022**



**Photo 266: Basin B: September 19, 2022**



**Photo 267: Basin B: September 19, 2022**



**Photo 268: Basin B: September 19, 2022**





**Photo 269: Eastside Drainage Channel: July 25, 2022**



**Photo 270: Eastside Drainage Channel: July 25, 2022**



**Photo 271: Eastside Drainage Channel: July 25, 2022**



**Photo 272: Eastside Drainage Channel: July 25, 2022**





**Photo 273: Eastside Drainage Channel: July 25, 2022**



**Photo 274: Eastside Drainage Channel: July 25, 2022**



**Photo 275: Eastside Drainage Channel: July 25, 2022**



**Photo 276: Eastside Drainage Channel: July 25, 2022**





**Photo 277: Eastside Drainage Channel: July 25, 2022**



**Photo 278: Eastside Drainage Channel: July 25, 2022**



**Photo 279: Eastside Drainage Channel: July 25, 2022**



**Photo 280: Eastside Drainage Channel: July 25, 2022**





**Photo 281: Eastside Drainage Channel: July 25, 2022**



**Photo 282: Eastside Drainage Channel: July 25, 2022**



**Photo 283: Eastside Drainage Channel: July 25, 2022**



**Photo 284: Eastside Drainage Channel: July 25, 2022**





**Photo 285: Eastside Drainage Channel: July 25, 2022**



**Photo 286: Eastside Drainage Channel: July 25, 2022**



**Photo 287: Eastside Drainage Channel: July 25, 2022**



**Photo 288: Eastside Drainage Channel: July 25, 2022**





**Photo 289: Eastside Drainage Channel: August 22, 2022**



**Photo 291: Eastside Drainage Channel: August 22, 2022**



**Photo 290: Eastside Drainage Channel: August 22, 2022**



**Photo 292: Eastside Drainage Channel: August 22, 2022**





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**Photo 294: Eastside Drainage Channel: August 22, 2022**



**Photo 295: Eastside Drainage Channel: August 22, 2022**



**Photo 296: Eastside Drainage Channel: August 22, 2022**





**Photo 297: Eastside Drainage Channel: August 22, 2022**



**Photo 298: Eastside Drainage Channel: August 22, 2022**



**Photo 299: Eastside Drainage Channel: August 22, 2022**



**Photo 300: Eastside Drainage Channel: August 22, 2022**





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**Photo 302: Eastside Drainage Channel: August 22, 2022**



**Photo 303: Eastside Drainage Channel: August 22, 2022**



**Photo 304: Eastside Drainage Channel: August 22, 2022**





**Photo 305: Eastside Drainage Channel: August 22, 2022**



**Photo 306: Eastside Drainage Channel: August 22, 2022**



**Photo 307: Eastside Drainage Channel: September 19, 2022**



**Photo 308: Eastside Drainage Channel: September 19, 2022**





**Photo 309: Eastside Drainage Channel: September 19, 2022**



**Photo 310: Eastside Drainage Channel: September 19, 2022**



**Photo 311: Eastside Drainage Channel: September 19, 2022**



**Photo 312: Eastside Drainage Channel: September 19, 2022**





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**Photo 314: Eastside Drainage Channel: September 19, 2022**



**Photo 315: Eastside Drainage Channel: September 19, 2022**



**Photo 316: Eastside Drainage Channel: September 19, 2022**





**Photo 317: Eastside Drainage Channel: September 19, 2022**



**Photo 318: Eastside Drainage Channel: September 19, 2022**



**Photo 319: Eastside Drainage Channel: September 19, 2022**



**Photo 320: Eastside Drainage Channel: September 19, 2022**





**Photo 321: Eastside Drainage Channel: September 19, 2022**



**Photo 322: Eastside Drainage Channel: September 19, 2022**



**Photo 323: Terminal Basin: July 25, 2022**



**Photo 324: Terminal Basin: July 25, 2022**





**Photo 325: Terminal Basin: July 25, 2022**



**Photo 326: Terminal Basin: July 25, 2022**



**Photo 327: Terminal Basin: July 25, 2022**



**Photo 328: Terminal Basin: July 25, 2022**





**Photo 329: Terminal Basin: July 25, 2022**



**Photo 330: Terminal Basin: July 25, 2022**



**Photo 331: Terminal Basin: July 25, 2022**



**Photo 332: Terminal Basin: July 25, 2022**





**Photo 333: Terminal Basin: July 25, 2022**



**Photo 334: Terminal Basin: August 22, 2022**



**Photo 335: Terminal Basin: August 22, 2022**



**Photo 336: Terminal Basin: August 22, 2022**





**Photo 337: Terminal Basin: August 22, 2022**



**Photo 338: Terminal Basin: August 22, 2022**



**Photo 339: Terminal Basin: August 22, 2022**



**Photo 340: Terminal Basin: August 22, 2022**





**Photo 341: Terminal Basin: August 22, 2022**



**Photo 342: Terminal Basin: August 22, 2022**



**Photo 343: Terminal Basin: August 22, 2022**



**Photo 344: Terminal Basin: August 22, 2022**





**Photo 345: Terminal Basin: August 22, 2022**



**Photo 346: Terminal Basin: August 22, 2022**



**Photo 347: Terminal Basin: August 22, 2022**



**Photo 348: Terminal Basin: August 22, 2022**





**Photo 349: Terminal Basin: August 22, 2022**



**Photo 350: Terminal Basin: August 22, 2022**



**Photo 351: Terminal Basin: August 22, 2022**



**Photo 352: Terminal Basin: August 22, 2022**





**Photo 353: Terminal Basin: August 22, 2022**



**Photo 354: Terminal Basin: August 22, 2022**



**Photo 355: Terminal Basin: August 22, 2022**

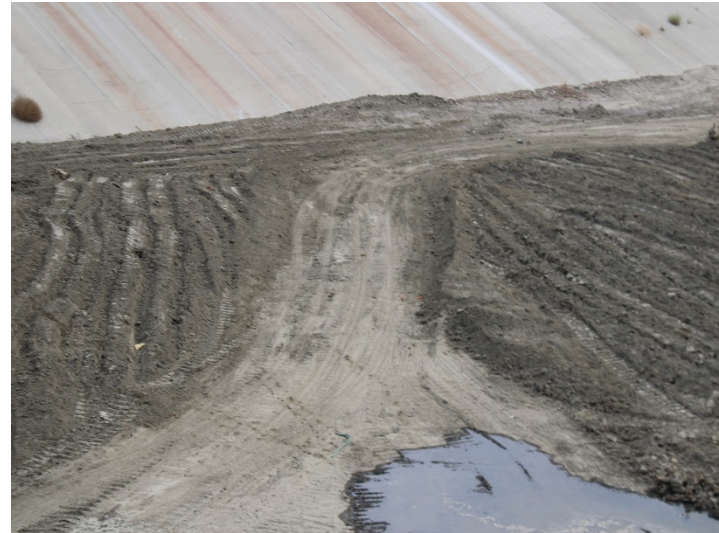


**Photo 356: Terminal Basin: August 22, 2022**





**Photo 357: Terminal Basin: August 22, 2022**



**Photo 358: Terminal Basin: August 22, 2022**



**Photo 359: Terminal Basin: August 22, 2022**



**Photo 360: Terminal Basin: August 22, 2022**





**Photo 361: Terminal Basin: August 22, 2022**



**Photo 362: Terminal Basin: August 22, 2022**



**Photo 363: Terminal Basin: August 22, 2022**



**Photo 364: Terminal Basin: August 22, 2022**





**Photo 365: Terminal Basin: August 22, 2022**



**Photo 366: Terminal Basin: August 22, 2022**



**Photo 367: Terminal Basin: August 22, 2022**



**Photo 368: Terminal Basin: August 22, 2022**





**Photo 369: Terminal Basin: August 22, 2022**



**Photo 370: Terminal Basin: August 22, 2022**



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**Photo 371: Terminal Basin: August 22, 2022**



**Photo 372: Terminal Basin: September 19, 2022**





**Photo 373: Terminal Basin: September 19, 2022**



**Photo 374: Terminal Basin: September 19, 2022**



**Photo 375: Terminal Basin: September 19, 2022**



**Photo 376: Terminal Basin: September 19, 2022**





**Photo 377: Terminal Basin: September 19, 2022**



**Photo 378: Terminal Basin: September 19, 2022**



**Photo 379: Terminal Basin: September 19, 2022**

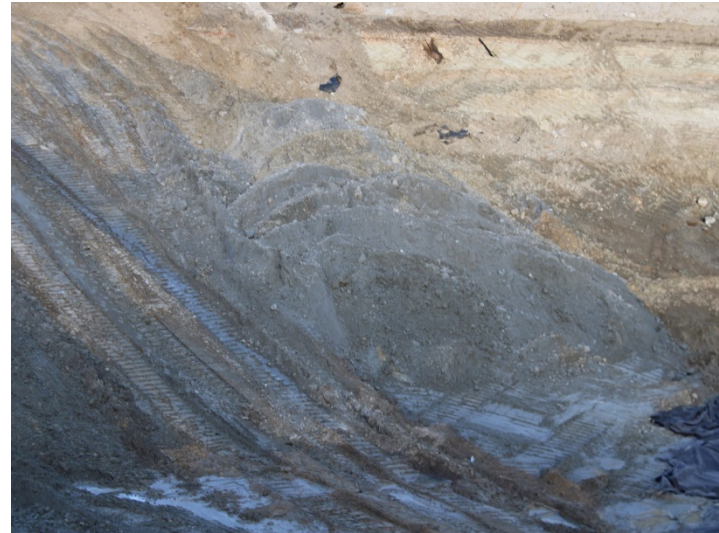


**Photo 380: Terminal Basin: September 19, 2022**





**Photo 381: Terminal Basin: September 19, 2022**



**Photo 382: Terminal Basin: September 19, 2022**



**Photo 383: Terminal Basin: September 19, 2022**



**Photo 384: Terminal Basin: September 19, 2022**





**Photo 385: Terminal Basin: September 19, 2022**



**Photo 386: Terminal Basin: September 19, 2022**



**Photo 387: Terminal Basin: September 19, 2022**



**Photo 388: Terminal Basin: September 19, 2022**





**Photo 389: Terminal Basin: September 19, 2022**



**Photo 390: Terminal Basin: September 19, 2022**



**Photo 391: Terminal Basin: September 19, 2022**

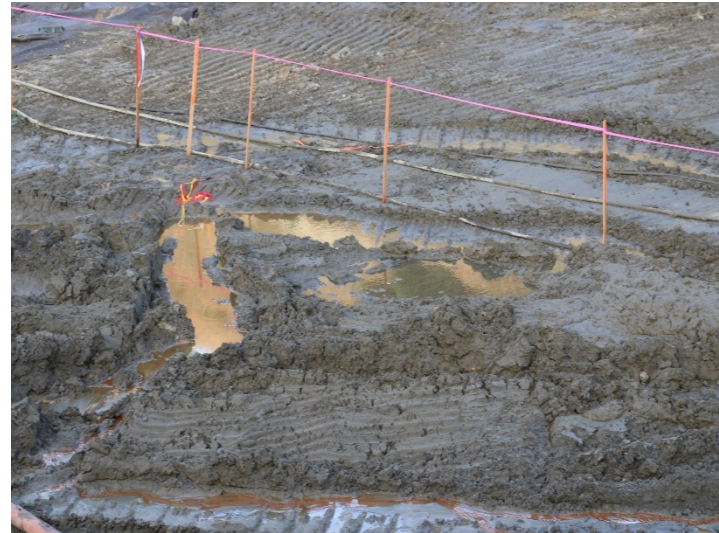


**Photo 392: Terminal Basin: September 19, 2022**





**Photo 393: Terminal Basin: September 19, 2022**



**Photo 394: Terminal Basin: September 19, 2022**



**Photo 395: Terminal Basin: September 19, 2022**



**Photo 396: Terminal Basin: September 19, 2022**





**Photo 397: Terminal Basin: September 19, 2022**



**Photo 398: Terminal Basin: September 19, 2022**



**Photo 399: Terminal Basin: September 19, 2022**



**Photo 400: Terminal Basin: September 19, 2022**





**Photo 401: Terminal Basin: September 19, 2022**



**Photo 402: Terminal Basin: September 19, 2022**



**Photo 403: Terminal Basin: September 19, 2022**



**Photo 404: Terminal Basin: September 19, 2022**





**Photo 405: Terminal Basin: September 19, 2022**



**Photo 406: Terminal Basin: September 19, 2022**



**Photo 407: Terminal Basin: September 19, 2022**



**Photo 408: Terminal Basin: September 19, 2022**





**Photo 409: Terminal Basin: September 19, 2022**



**Photo 410: Terminal Basin: September 19, 2022**



**Photo 411: Terminal Basin: September 19, 2022**



**Photo 412: Terminal Basin: September 19, 2022**





**Photo 413: Terminal Basin: September 19, 2022**



**Photo 415: Terminal Basin: September 19, 2022**



**Photo 414: Terminal Basin: September 19, 2022**



**Photo 416: Terminal Basin: September 19, 2022**





**Photo 417: Terminal Basin: September 19, 2022**



**Photo 418: Terminal Basin: September 19, 2022**



**Photo 419: Terminal Basin: September 19, 2022**



**Photo 420: Terminal Basin: September 19, 2022**





**Photo 421: Terminal Basin: September 19, 2022**



**Photo 422: Terminal Basin: September 19, 2022**



**Photo 423: Terminal Basin: September 19, 2022**



**Photo 424: Terminal Basin: September 19, 2022**





**Photo 425: Terminal Basin: September 19, 2022**



**Photo 426: Terminal Basin: September 19, 2022**



**Photo 427: Terminal Basin: September 19, 2022**



**Photo 428: Terminal Basin: September 19, 2022**





**Photo 429: Terminal Basin: September 19, 2022**



**Photo 430: Terminal Basin: September 19, 2022**



**Photo 431: Sage Mitigation, Deck C: July 25, 2022**



**Photo 432: Sage Mitigation, Deck C: July 25, 2022**





**Photo 433: Sage Mitigation, Deck C: July 25, 2022**



**Photo 434: Sage Mitigation, Deck C: July 25, 2022**



**Photo 435: Sage Mitigation, Deck C: August 22, 2022**



**Photo 436: Sage Mitigation, Deck C: August 22, 2022**





**Photo 437: Sage Mitigation, Deck C: August 22, 2022**



**Photo 438: Sage Mitigation, Deck C: August 22, 2022**



**Photo 439: Sage Mitigation, Deck C: August 22, 2022**



**Photo 440: Sage Mitigation, Deck B: September 19, 2022**





**Photo 441: Sage Mitigation, Deck B: September 19, 2022**



**Photo 442: Sage Mitigation, Deck B: September 19, 2022**



**Photo 443: General Site: July 25, 2022**



**Photo 444: General Site: July 25, 2022**





**Photo 445: General Site: July 25, 2022**



**Photo 446: General Site: July 25, 2022**



**Photo 447: General Site: July 25, 2022**



**Photo 448: General Site: July 25, 2022**





**Photo 449: General Site: July 25, 2022**



**Photo 450: General Site: July 25, 2022**



**Photo 451: General Site: July 25, 2022**



**Photo 452: General Site: July 25, 2022**





**Photo 453: General Site: July 25, 2022**



**Photo 454: General Site: July 25, 2022**



**Photo 455: General Site: July 25, 2022**



**Photo 456: General Site: July 25, 2022**





**Photo 457: General Site: July 25, 2022**



**Photo 458: General Site: July 25, 2022**



**Photo 459: General Site: July 25, 2022**



**Photo 460: General Site: July 25, 2022**





**Photo 461: General Site: July 25, 2022**



**Photo 462: General Site: July 25, 2022**



**Photo 463: General Site: July 25, 2022**



**Photo 464: General Site: July 25, 2022**





**Photo 465: General Site: July 25, 2022**



**Photo 466: General Site: July 25, 2022**



**Photo 467: General Site: July 25, 2022**



**Photo 468: General Site: July 25, 2022**





**Photo 469: General Site: July 25, 2022**



**Photo 470: General Site: July 25, 2022**



**Photo 471: General Site: July 25, 2022**



**Photo 472: General Site: July 25, 2022**





**Photo 473: General Site: July 25, 2022**



**Photo 474: General Site: July 25, 2022**



**Photo 475: General Site: July 25, 2022**



**Photo 476: General Site: July 25, 2022**





**Photo 477: General Site: July 25, 2022**



**Photo 478: General Site: July 25, 2022**



**Photo 479: General Site: July 25, 2022**



**Photo 480: General Site: July 25, 2022**





Photo 481: General Site: July 25, 2022



Photo 482: General Site: July 25, 2022



Photo 483: General Site: July 25, 2022



Photo 484: General Site: July 25, 2022





**Photo 485: General Site: August 22, 2022**



**Photo 486: General Site: August 22, 2022**



**Photo 487: General Site: August 22, 2022**



**Photo 488: General Site: August 22, 2022**





**Photo 489: General Site: August 22, 2022**



**Photo 490: General Site: August 22, 2022**



**Photo 491: General Site: August 22, 2022**



**Photo 492: General Site: August 22, 2022**





**Photo 493: General Site: August 22, 2022**



**Photo 494: General Site: August 22, 2022**



**Photo 495: General Site: August 22, 2022**



**Photo 496: General Site: August 22, 2022**





**Photo 497: General Site: August 22, 2022**



**Photo 498: General Site: August 22, 2022**



**Photo 499: General Site: August 22, 2022**



**Photo 500: General Site: August 22, 2022**





**Photo 501: General Site: August 22, 2022**



**Photo 502: General Site: August 22, 2022**



**Photo 503: General Site: August 22, 2022**



**Photo 504: General Site: August 22, 2022**





**Photo 505: General Site: August 22, 2022**



**Photo 506: General Site: August 22, 2022**



**Photo 507: General Site: September 19, 2022**



**Photo 508: General Site: September 19, 2022**





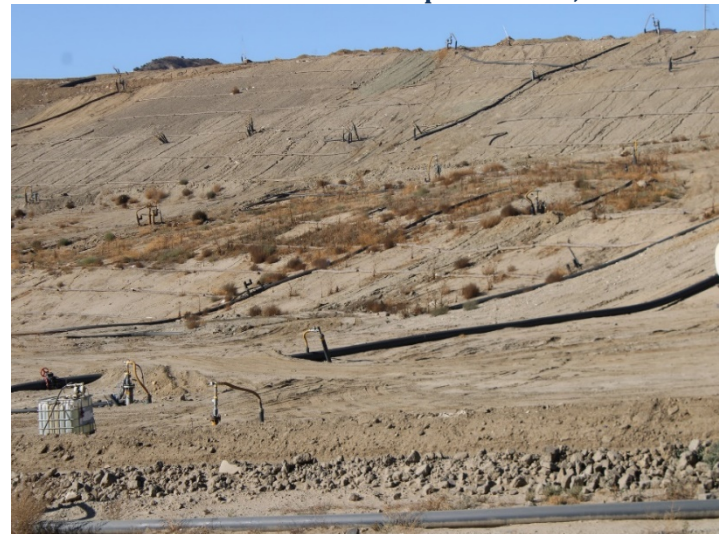
**Photo 509: General Site: September 19, 2022**



**Photo 510: General Site: September 19, 2022**



**Photo 511: General Site: September 19, 2022**



**Photo 512: General Site: September 19, 2022**





**Photo 513: General Site: September 19, 2022**



**Photo 514: General Site: September 19, 2022**



**Photo 515: General Site: September 19, 2022**



**Photo 516: General Site: September 19, 2022**





**Photo 517: General Site: September 19, 2022**



**Photo 518: General Site: September 19, 2022**



**Photo 519: General Site: September 19, 2022**



**Photo 520: General Site: September 19, 2022**





**Photo 521: General Site: September 19, 2022**



**Photo 522: General Site: September 19, 2022**



**Photo 523: General Site: September 19, 2022**



**Photo 524: General Site: September 19, 2022**





**Photo 525: General Site: September 19, 2022**



**Photo 526: General Site: September 19, 2022**



**Photo 527: General Site: September 19, 2022**



**Photo 528: General Site: September 19, 2022**





**Photo 529: General Site: September 19, 2022**



**Photo 530: General Site: September 19, 2022**



**Photo 531: General Site: September 19, 2022**



**Photo 532: General Site: September 19, 2022**





Photo 533: General Site: September 19, 2022



Photo 534: General Site: September 19, 2022



Photo 535: General Site: September 19, 2022



Photo 536: General Site: September 19, 2022



**Photo 537: General Site: September 19, 2022**



**Photo 538: General Site: September 19, 2022**



**Photo 539: General Site: September 19, 2022**



**Photo 540: General Site: September 19, 2022**





**Photo 541: General Site: September 19, 2022**



**Photo 542: General Site: September 19, 2022**



**Photo 543: General Site: September 19, 2022**



**Photo 544: Road Realignment: July 25, 2022**





**Photo 545: Road Realignment: July 25, 2022**



**Photo 546: Road Realignment: July 25, 2022**



**Photo 547: Road Realignment: July 25, 2022**



**Photo 548: Road Realignment: July 25, 2022**





**Photo 549: Road Realignment: July 25, 2022**



**Photo 550: Road Realignment: July 25, 2022**



**Photo 551: Road Realignment: July 25, 2022**



**Photo 552: Road Realignment: July 25, 2022**





**Photo 553: Road Realignment: August 22, 2022**



**Photo 554: Road Realignment: August 22, 2022**



**Photo 555: Road Realignment: August 22, 2022**



**Photo 556: Road Realignment: August 22, 2022**





**Photo 557: Road Realignment: August 22, 2022**



**Photo 558: Road Realignment: August 22, 2022**



**Photo 559: Road Realignment: August 22, 2022**



**Photo 560: Road Realignment: August 22, 2022**





**Photo 561: Road Realignment: August 22, 2022**



**Photo 562: Road Realignment: August 22, 2022**



**Photo 563: Road Realignment: August 22, 2022**



**Photo 564: Road Realignment: August 22, 2022**





**Photo 565: Road Realignment: August 22, 2022**



**Photo 566: Road Realignment: August 22, 2022**



**Photo 567: Road Realignment: August 22, 2022**



**Photo 568: Road Realignment: September 19, 2022**





**Photo 569: Road Realignment: September 19, 2022**



**Photo 570: Road Realignment: September 19, 2022**



**Photo 571: Road Realignment: September 19, 2022**



**Photo 572: Road Realignment: September 19, 2022**





**Photo 573: Road Realignment: September 19, 2022**



**Photo 574: Road Realignment: September 19, 2022**



**Photo 575: Road Realignment: September 19, 2022**



**Photo 576: Road Realignment: September 19, 2022**





**Photo 577: Road Realignment: September 19, 2022**



**Photo 578: Road Realignment: September 19, 2022**



**Photo 579: PM-10 Oak Trees: July 25, 2022**



**Photo 580: PM-10 Oak Trees: July 25, 2022**





**Photo 581: PM-10 Oak Trees: July 25, 2022**



**Photo 582: PM-10 Oak Trees: July 25, 2022**



**Photo 583: PM-10 Oak Trees: July 25, 2022**



**Photo 584: PM-10 Oak Trees: July 25, 2022**





**Photo 585: PM-10 Oak Trees: September 19, 2022**



**Photo 586: PM-10 Oak Trees: September 19, 2022**



**Photo 587: PM-10 Oak Trees: September 19, 2022**



**Photo 588: PM-10 Oak Trees: September 19, 2022**



## **Appendix III**

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

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# July 2022



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 7/25/22
Site Conditions: Clear, 60-90° F, 0-10 MPH winds	
SITE LOG	
<p>Drove the Granada Hills area near Woodley Avenue, the adjacent neighborhood, and school areas from 5:10 to 5:45 a.m. There were no landfill odors detected. There were also no roadway liquid odors detected at Balboa and Woodley, nor at the transition down to San Fernando Road. Met with Mike Lindsay (UltraSystems), Tarik Hadj-Hamou (SRK), and Gladys Reitze and Robel Mesfin (LACDPW). Checked into the site via a phone call to Bill Carr. We then proceeded to monitor the site in separate vehicles and observed the following:</p> <ul style="list-style-type: none"> <li>• At 5:10 a.m., approximately 10 transfer trucks were queueing on San Fernando Road starting at the entrance.</li> <li>• The whole landfill site and the start of morning operations were observed from the City Deck A viewing platform from 6:00 to 6:20 a.m. The prior week's ADC was covered with soil on Saturday. There were no operational issues observed.</li> <li>• The active fill area was in CC-4 Part 4A. There were no operational concerns noted.</li> <li>• Flare 1 was operating, and no landfill gas odors or operational concerns were noted.</li> <li>• The city sage mitigation decks B and C were observed. The areas inside of the perimeter roads were being maintained. Non-natives and mustard were observed outside of the maintained area.</li> <li>• The PM-10 berm oak trees had no replacement of the dead trees.</li> <li>• The employee asphalt road's cracks and movement had worsened. No landfill slope movement was noted. Republic's geotechnical engineer is monitoring what he believes is settlement.</li> <li>• The eastside drainage channel had a minor amount of debris and sediment. The channel had vegetation growing in the concrete cracks.</li> <li>• The Adler tank liquids treatment facility was operational, and no odors were detected or concerns noted.</li> <li>• The liquids pipe from the liner's low point liquids removal pump was not covered with soil at the roadway near the tank treatment facility. The exposed HDPE pipe had vehicle scuff marks.</li> <li>• The scales were operational with only a few small potholes at the exit ramp.</li> <li>• Basin B was dry and partially cleared of sediment. Vegetation was growing out of concrete cracks.</li> </ul>	

- The eastside drainage channel had two drainage pipe culverts partially plugged with sediment, debris, and windblown vegetation on the inlet to Basin B.
- Basin A had sediment in the process of being removed. The basin was dry.
- The terminal basin had wet sediment, with vegetation growing in it near the outlet risers. There was seep water entering the basin from what appeared to be under the old entrance asphalt road. It had a red iron oxide color.
- The construction of the new main access road had a significant amount of soil placed since the last site visit. The road now terminates at the oil field paved roadway. Widening of the road is now being done.
- There are no truck guardrails installed on the new access road.
- The outlet piping from the new basin had not been installed.

Flare Operating Conditions:

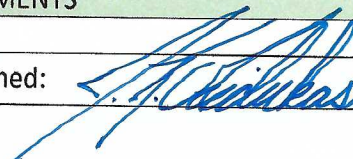
- Flare 1 – 1626°F, 1880 SCFM
- Flare 3 – not operating
- Flare 9 – 1644°F, 3212 SCFM
- Flare 10 – not operating
- Flare 11 – 1664°F, 3139 SCFM

The gas-to-energy plant's display meter showing that gas volume used was not operating. The total volume of recovered landfill gas being flared was 8,231 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed:





**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 07-25-2022 Monday
Site Conditions: Hazy then Clear, 62–92 °F, W 3–10 mph, 82% RH, 52 AQI	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. No odors are present in the adjacent neighborhood and school at 5:45 am.</li> <li>2. Transfer trucks are queued along San Fernando Road, with 12 trucks blocking the eastbound left lane, from Balboa Avenue to the landfill entrance; presumably waiting for the 6 am entry time.</li> <li>3. Checked into office via phone with Bill Carr (Republic Services).</li> <li>4. Met with Jim Aidukas (UltraSystems), Tarik Hadj-Hamou (SRK), and Gladys Rietze and Robel Mesfin (LACDPW) following in separate vehicles to site locations.</li> <li>5. Observed overall landfill operations from observation deck, including working area at Cell CC-4 Part 4A.</li> <li>6. ADC at the active working face is covered with soil from Saturday's operations.</li> <li>7. Water trucks are applying water to site for dust control.</li> <li>8. Working area at Cell CC-4 Part 4A is in good order, with four tippers in place.</li> <li>9. The roadway cracks are getting larger in access road to the admin facility. No soil separation is present in soil slope below cracks.</li> <li>10. The admin and LEA facility are in good order.</li> <li>11. The Adler tank farm facility is in good order, with no odors present.</li> <li>12. The road drain at the Adler tank farm is clogged with vegetation.</li> <li>13. Met with Edgar De La Torre (LACDRP), who followed in a separate vehicle.</li> <li>14. The eastside drainage channel has vegetation growing in concrete cracks.</li> <li>15. The scales are generally in good order, with some potholes present at exit ramps.</li> <li>16. Double bottom dump trucks are importing soil.</li> <li>17. Sediment basin B is mostly dry, with debris at back of basin.</li> <li>18. An eastside drainage culvert is still blocked with vegetation and soil south of Basin B.</li> <li>19. The bowl area by basin B is in good order, with no odors present.</li> <li>20. Flare 9 is operating at 3212 scfm, 1644 °F. Gas sample measured at 38 % Vol. CH<sub>4</sub>, 1.4 % Vol. O<sub>2</sub>, 61 ppm H<sub>2</sub>S and 240 ppm CO. Gas inlet temperature is 124 °F. Blowers 1, 2, 4, 5 and 6 are operating.</li> <li>21. Flare 10 is offline.</li> <li>22. Flare 11 is operating at 3139 scfm, 1664 °F. Gas inlet temperature is 133 °F.</li> <li>23. No landfill gas odor is present at the blower 5 outlet flange.</li> <li>24. A drainage channel below (southwest) of the flare pad is blocked with soil and a live tree.</li> <li>25. Perimeter drainage channel at flare pad is in good order, with sediment covering bottom of channel.</li> <li>26. Gas volume data for the Sunshine Gas Producers facility has been removed from display panel.</li> <li>27. The secondary access road is in good order, with the perimeter gate propped open.</li> <li>28. The basin D storage yard is in good order, with scrap vehicles removed.</li> <li>29. Basin D is in good order.</li> <li>30. The westside drainage channel is in good order, clear of sediment.</li> <li>31. The County sage mitigation slopes are in good order.</li> <li>32. Traffic spotters are onsite to control traffic.</li> <li>33. The County top deck is in good order.</li> <li>34. Sediment basin A has sediment collected into piles for removal, with debris at back of basin.</li> <li>35. Workers are removing wind-blown trash from slope areas.</li> </ol>	

36. Observed depression (hump) at north-facing end of the Part 4B wall liner.
37. Flare 3 is offline.
38. The closure turf at the City north slopes along the main haul road is in good order with no odors.
39. Flare 1 is operating at 1880 scfm, 1626 °F. Gas sample measured at 34 % Vol. CH<sub>4</sub>, 1.5 % Vol. O<sub>2</sub>, 77 ppm H<sub>2</sub>S and 330 ppm CO. Gas inlet temperature is 123 °F.
40. Water misters are operating along the southern perimeter.
41. The PM-10 oak trees are in good condition, but with several dead trees present.
42. City decks C and B sage mitigation areas have new green growth throughout.
43. Yellow mustard weed is growing throughout the City sage mitigation decks.
44. The terminal basin is in good order, with mud covering the northeast end. Litter and debris are largely covering the drains. Sediment is piled for removal.
45. Observed construction at the new sediment basin, including soil being imported and unloaded around the basin's perimeter.
46. Water misters are operating along the west perimeter slopes.
47. Street sweepers are cleaning the haul roads.
48. The oil field perimeter gate is closed and locked.
49. Water misters are operating along the main haul road near landfill entrance.
50. Checked out of office with Bill Carr via phone.

#### FURTHER REVIEW NEEDED

1. Notify transfer truck operators not to queue San Fernando Road waiting for the 6 am entry time.
2. Clear the road drain at the Adler tank farm.
3. Remove vegetation from eastside drainage channel.
4. Unblock eastside drainage culvert southeast of sediment basin B
5. Clear drainage below flare pad of soil and tree.
6. Remove yellow mustard weed from City sage mitigation decks.
7. Replace dead oak trees at PM-10 berm.

Signed:





## SUNSHINE CANYON LANDFILL

### MITIGATION MONITORING SITE REPORT

Monitor: Tarik Hadj-Hamou, Ph.D., P.E.	PAGE 1 OF 11
Discipline: Civil – Geotechnical and Hydrology	Date: July 25, 2022
Site Conditions: Sunny and warm	
<b>SITE LOG</b>	
<p>Pre-site inspection meeting</p> <ul style="list-style-type: none"> <li>Meet with UltraSystems team members Mike Lindsay and Jim Aidukas, to prepare tour of landfill, review of previous visits, review documents, discuss potential issues, organize areas and features to inspect.</li> <li>Meet with L.A. County monitors: Edgar de La Torre, Gladys Rietze, and Robel Mesfin</li> </ul>	
<p>Site inspection</p> <ul style="list-style-type: none"> <li>Tour of landfill</li> <li>Observation of waste face</li> <li>Access Roads</li> <li>Waste placement</li> <li>Drainage systems (Basins, channels)</li> <li>Erosion protection system</li> <li>Grading work for new access road/berm</li> <li>Liner Installation</li> <li>Landfill for geotechnical and hydrological issues</li> <li>Other observations</li> </ul>	
<p>Waste Face</p> <ul style="list-style-type: none"> <li>No exposed ASC was observed at 6:00AM (Photos IMG_1409)</li> </ul>	
<p>Access Roads</p> <ul style="list-style-type: none"> <li>Main access road:</li> <li>No stability drainage or erosion concerns</li> <li>Access road to the administration building.               <ul style="list-style-type: none"> <li>– Two cracks, upper crack and lower crack, were observed between the two hairpins turn along the concrete block gravity retaining wall (Figure 1)</li> <li>– The portion of the road between the two cracks has settles (Figure 2) but shows no lateral outward movement</li> <li>– The lower crack extends the full width of the road with no vertical offset. There is slight bump in the asphalt near the curb on the upslope side of the road</li> <li>– The upper crack:                   <ul style="list-style-type: none"> <li>✓ extends across the road and engages the curb on the upslope (Figure 3 and Photo IMG_1440)</li> <li>✓ exhibits a small vertical offset near the curb (Figure 3) and a slight horizontal offset (Figure 4)</li> <li>✓ exhibits vertical offset on the order of 1.5 inch near the outer curb (Photo IMG_1440)</li> </ul> </li> </ul> </li> </ul>	
<p>Waste Placement</p> <ul style="list-style-type: none"> <li>Two waste faces in operation (Figure 5) on top of Cell CC4 with 4 Tilters set-up (Photo IMG_0170)</li> </ul>	

<ul style="list-style-type: none"> <li>• Drainage System</li> <li>• Terminal Basin               <ul style="list-style-type: none"> <li>– Portion of the concrete wall and floor was removed in anticipation of construction of the toe berm</li> <li>– Reddish water seeping – probably underground water (IMG_1573)</li> <li>– Up to three feet of sediment have accumulated on the south side of the basin behind the the gabion wall (Photo IMG_1434)</li> <li>– Some refuse remains behind the decant towers (IMG_1439)</li> </ul> </li> <li>• Cell CC3 Earthen basin               <ul style="list-style-type: none"> <li>– Clean</li> </ul> </li> <li>• Basin B (Photo IMG_1466)               <ul style="list-style-type: none"> <li>– Some soil and debris/refuse have accumulated in the northeast corner</li> <li>– Some sediment in the middle of the basin and near the decant towers but no impact on capacity</li> <li>– A crack was observed on spillway walls (Figure 5)</li> </ul> </li> <li>• Basin D               <ul style="list-style-type: none"> <li>– Basin is clean and available for water storage</li> <li>– Vegetation is growing in crack on spillway to the west drainage channel as noted previously (Figure 6)</li> </ul> </li> <li>• Basin A               <ul style="list-style-type: none"> <li>– Basin is undergoing cleaning with some soil piles (Figure 8)</li> </ul> </li> <li>• Perimeter channels and ditches               <ul style="list-style-type: none"> <li>– Vegetation is growing though cracks and joints along portions of the channels and ditches namely near the administration office prior to downslope towards terminal basin (IMG_1431), near basin B (IMG_1467)</li> <li>– Vegetation and waste have accumulated at the intake of pipes installed where the channel was backfilled to provide access to the power pylons at the northern channel (Photo IMG_1470 and Figure 7)</li> </ul> </li> </ul>
<b>Erosion Protection Systems</b> <ul style="list-style-type: none"> <li>• Closure turf looks great, no excessive wrinkles</li> <li>• No signs of erosion</li> </ul>
<b>Grading work for new access road/berm</b> <ul style="list-style-type: none"> <li>– Grading and earthwork activities on day of visit (IMG_15796-1582)</li> </ul>
<b>Liner Installation</b> <ul style="list-style-type: none"> <li>• No liner installation was on-going</li> </ul>
<b>Landfill for geotechnical and hydrological issues</b> <ul style="list-style-type: none"> <li>• none</li> </ul>
<b>Other observations</b> <ul style="list-style-type: none"> <li>• None</li> </ul>
<b>FURTHER REVIEW NEEDED</b>
<ul style="list-style-type: none"> <li>• N/A</li> </ul>



COMMENTS

- Republic geotechnical engineer should investigate the access road to the administration pad prior to the rainy season

Signed:





Figure 1 : Two cracks on access road to the administration pad





Figure 2 : Slight depression on the road to the administration pad



Figure 3: Crack in the curb at end of upper crack – slight vertical offset





Figure 4 : Slight horizontal offset (yellow lines) at second crack on access road to the administration pad.





Figure 5: Cracks in spillway at Basin B





Figure 6: Vegetation in cracks at Basin D spillway





Figure 7: Soil and waste accumulated at intake pipe along channel





Figure 8: Soil piles in Bassin A

**Sunshine Canyon Landfill  
July 25, 2022, Site Visit  
August 11, 2022 Site Monitoring Conference Call**

Site Visit Participants

July 25, 2022 Site Visit

James Aidukas and Mike Lindsay, UltraSystems – Separate Vehicle  
Tarik Hadj-Hamou, SRK – Separate Vehicle  
Gladys Rietze and Robel Mesfin, LACDPW – Separate Vehicle  
Edgar De La Torre, LACDRP – Separate Vehicle

Conference Call Participants

Bill Carr and Kate Downey, Republic Services  
Edgar De La Torre and Diana Gonzales, LACDRP  
Mike Harmon and Gladys Rietze, LACDPW  
Tim Fargo, LA City  
James Aidukas and Mike Lindsay, UltraSystems

Site Visit Observations Discussion:

To follow CDC guidelines for COVID-19 health protocols, UltraSystems sent personnel in separate vehicles to perform a site visit to photograph site conditions and record site observations of the landfill. Edgar De La Torre and Diana Gonzalez also were in a separate vehicle. After reviewing the photos and observation record, a post-site visit conference call was held to discuss Sunshine Canyon Landfill operations and the status of construction, maintenance and compliance for the month of July. We asked questions regarding health measures, site operations, weather impacts, landfill gas and liquids control, construction activities and mitigation measures status. We received comments and updates from Republic staff as follows:

Discussion Topics After Reviewing Site Visit Photos

1. The adjacent neighborhood was monitored for odor between 5:15 to 5:45 am. There were no landfill odors detected. Balboa Boulevard near Woodley Avenue and Balboa Boulevard just before going down to San Fernando Road was monitored for roadway liquids odors. There were no liquids odors coming from the roadway.
  - o Bill Carr acknowledged the statement.
2. (Photos 1408-1410) The whole landfill site and the start of morning operations were observed from the City Deck A viewing platform from 6:00 to 6:20 am. The prior week's ADC was covered with soil on Saturday.
  - a.) Is soil now available and being brought in for ADC?
    - o Bill Carr stated that soil is brought in throughout the week.
  - b.) How is the soil importation coordinated with the soil supplier?
    - o Bill Carr stated that they have several sources for soil import.
  - c.) Is soil being stockpiled for this use?
    - o Bill Carr stated that they reserve soil for Saturday use.



3. (Photos 1413-1420) There was windblown litter observed on the prior week's top deck.
  - a.) When is this normally removed?
    - Bill Carr stated that they bring in personnel on a daily basis and start along the mid-access road and progress up the hill. As they progress throughout the day and week, they target certain areas.
  - b.) Has there been any litter removal from the areas that had litter in the native vegetation from last year's high wind events?
    - Bill Carr stated that they periodically go up to those areas when the material eventually comes down and they can safely retrieve and collect it.
4. (Photos 1440-1442) The cracks and humps in the paved employee access road have gotten worse.
  - a.) Has the geotechnical consultant determined what the cause is for the cracks and movement of the pavement?
    - Kate Downey stated that they had their engineering consultants take a look, and they established that it is due to standard settlement since that road is placed over waste. It is being monitored on a monthly basis and has not been a cause for concern as of yet.
5. (Photos 1452-1454) The employee parking lot was observed.
  - a.) Is the employee dirt parking area scheduled to have road base and/or soil sealant put on the dirt surface?
    - Bill Carr stated that they still have that material onsite and periodically use it.
    - Bill Carr stated that he will get in contact with his team to use the sealant during the weekend when no one is on the parking lot.
6. (Photos 1425-1428) The condensate and leachate treatment facility were observed. There were no odors detected and no concerns noted.
  - Bill Carr acknowledged the statement.
7. (Photos 1429-1431, 1467-1471) The eastside drainage channel was observed.
  - a.) Soil and debris need to be removed.
    - Bill Carr stated that they are deploying people on a daily basis to clean out the terminal basin as the primary focus, and then the drainage channels as well.
8. (Photos 1456-1461) The exit roads from the scales were in good condition. There were no major concerns noted. There were only small potholes in the exit road area.
  - Bill Carr acknowledged the statement.
9. (Photos 1462-1466) Basin B was observed.
  - a.) When will sediment and debris be removed?
    - Bill Carr stated that they have not begun work on Basin B yet, but they are clearing out the sediment and debris in Basin A right now, and will work their way around to Basin B.
  - b.) Will sediment be reclaimed and used for cover or ADC ballast?
    - Bill Carr stated that in some cases they can use reclaimed sediment, but it depends on how powdery it is. They try to reutilize the material as much as they can.

10. (Photo 1506) The north perimeter gate was observed.
  - a.) The access gate was not locked.
    - o Bill Carr acknowledged the statement.
11. (Photos 1509-1511) The material storage area was observed. It appeared that the area was being cleared of junk and the usable material was being organized.
  - a.) Is more removal and disposal of junk material scheduled?
    - o Bill Carr stated that there is not a definitive schedule, but they are continuing to remove old gas pipes and trailers, and are cleaning up the whole area.
12. (Photo 1520) The County top deck was observed.
  - a.) Is this excavated area shown in the photo going to be filled before October 1, when the winter rainy season begins?
    - o Bill Carr stated that they are in the process of filling the area along the entire edge of the perimeter road past the power plant, up the boneyard, and back to Basin A.
13. (Photos 1523-1531) Basin A and the westside channel were observed. They were in the process of having sediment and debris removed.
  - o Bill Carr acknowledged the statement.
14. (Photos 1544-1547) There is a slump that has been noted on the lined slope of CC-4 Part 4B or Part 5.
  - a.) Has Republic's geotechnical consultant looked at the slump and documented the acceptability of leaving it as it is?
    - o Kate Downey stated that they have been in contact with their geotechnical consultant, and there was no action recommended at this time. They will follow up for another update.
15. (Photos 1567-1570) The sage mitigation on the old City Decks B and C were being maintained and doing well. The area outside of the Deck C roadway did not have the mustard weed removed.
  - a.) What is being done to prevent mustard weed from spreading into the sage mitigation area?
    - o Kate Downey stated that they will be reaching out to Oakridge who performs that maintenance to make sure the mustard weed issue is addressed.
16. (Photos 1561-1566) The PM-10 oak tree mitigation area was observed. There were numerous dead oak trees.
  - a.) Has a report been done identifying the dead trees with a plan for their replacement?
    - o Kate Downey stated that she believes a report has been completed, but this is a question for Valorie Moore, so she will confirm with her and following up with an update.
17. (Photos 1571-1573) There was alluvial seep water entering the terminal basin.
  - a.) Is this coming from the two 90-inch diameter buried corrugated steel drainage pipes not yet removed and shown on the A-Mehr 2010 drawings?



- Kate Downey stated that they and their construction contractor for the front entrance do not believe that it is seep water. They will look into the seep issue more and see if there are any issues.
- 18. (Photos 1434-1438, 1574 and 1575) The terminal basin had a significant amount of sediment with debris covering a lot of it.
  - a.) When will cleaning of the basin start?
    - Bill Carr stated that they are in the process of cleaning the terminal basin.
- 19. (Photos 1576-1584) The construction of the new main access road had a significant amount of work done.
  - a.) When will the construction plan be available for review?
    - Kate Downey stated that drawings have not been approved yet and are still under review by the City. Once they are approved, they can share the drawings since they will be on the public record.
- 20. (Photos 1535-1540, 1548-1552) The active area was observed and was operating with no concerns noted except for dust being generated on un-watered roads.
  - Bill Carr acknowledged the statement.

Site Visit Comments from Mike Lindsay

- Mike Lindsay reviewed statements made in the MMSRF site reports.

The conference call concluded.

Sunshine Canyon Landfill  
July 25, 2022, Site Visit  
Conference Call Discussion Items

Site Visit Participants

July 25, 2022 Site Visit

James Aidukas and Mike Lindsay, UltraSystems – Separate Vehicle  
Tarik Hadj-Hamou, SRK  
Gladys Rietze and Robel Mesfin, LACDPW – Separate Vehicle  
Edgar De La Torre, LACDRP – Separate Vehicle

Discussion Topics After Reviewing Site Visit Photos

1. The adjacent neighborhood was monitored for odor between 5:15 to 5:45 am. There were no landfill odors detected. Balboa Boulevard near Woodley Avenue and Balboa Boulevard just before going down to San Fernando Road was monitored for roadway liquids odors. There were no liquids odors coming from the roadway.
2. (Photos 1408-1410) The whole landfill site and the start of morning operations were observed from the City Deck A viewing platform from 6:00 to 6:20 am. The prior week's ADC was covered with soil on Saturday.
  - a.) Is soil now available and being brought in for ADC?
  - b.) How is the soil importation coordinated with the soil supplier?
  - c.) Is soil being stockpiled for this use?
3. (Photos 1413-1420) There was windblown litter observed on the prior week's top deck.
  - a.) When is this normally removed?
  - b.) Has there been any litter removal from the areas that had litter in the native vegetation from last year's high wind events?
4. (Photos 1440-1442) The cracks and humps in the paved employee access road have gotten worse.
  - a.) Has the geotechnical consultant determined what the cause is for the cracks and movement of the pavement?
5. (Photos 1452-1454) The employee parking lot was observed.
  - a.) Is the employee dirt parking area scheduled to have road base and/or soil sealant put on the dirt surface?
6. (Photos 1425-1428) The condensate and leachate treatment facility were observed. There were no odors detected and no concerns noted.
7. (Photos 1429-1431, 1467-1471) The eastside drainage channel was observed.
  - a.) Soil and debris need to be removed.
8. (Photos 1456-1461) The exit roads from the scales were in good condition. There were no major concerns noted. There were only small potholes in the exit road area.



9. (Photos 1462-1466) Basin B was observed.
  - a.) When will sediment and debris be removed?
  - b.) Will sediment be reclaimed and used for cover or ADC ballast?
10. (Photo 1506) The north perimeter gate was observed.
  - a.) The access gate was not locked.
11. (Photos 1509-1511) The material storage area was observed. It appeared that the area was being cleared of junk and the usable material was being organized.
  - a.) Is more removal and disposal of junk material scheduled?
12. (Photos 1517-1519) The County sage mitigation slopes were observed. No mitigation activity was occurring.
  - a.) What is the well shown in photo 1517 used for?
13. (Photo 1520) The County top deck was observed.
  - a.) Is this excavated area shown in the photo going to be filled before October 1, winter rainy season?
14. (Photos 1523-1531) Basin A and the westside channel were observed. They were in the process of having sediment and debris removed.
15. (Photos 1544-1547) There is a slump that has been noted on the lined slope of CC-4 Part 4B or Part 5.
  - a.) Has Republic's geotechnical consultant looked at the slump and documented the acceptability of leaving it as it is?
16. (Photos 1567-1570) The sage mitigation on the old City Decks B and C were being maintained and doing well. The area outside of the Deck C roadway did not have the mustard weed removed.
  - a.) What is being done to prevent mustard weed from spreading into the sage mitigation area?
17. (Photos 1561-1566) The PM-10 oak tree mitigation area was observed. There were numerous dead oak trees.
  - a.) Has a report been done identifying the dead trees with a plan for their replacement?
18. (Photos 1571-1573) There was alluvial seep water entering the terminal basin.
  - a.) Is this coming from the two 90-inch diameter buried corrugated steel drainage pipes not yet removed and shown on the A-Mehr 2010 drawings?
19. (Photos 1434-1438, 1574 and 1575) The terminal basin had a significant amount of sediment with debris covering a lot of it.
  - a.) When will cleaning of the basin start?
20. (Photos 1576-1584) The construction of the new main access road had a significant amount of work done.
  - a.) When will the construction plan be available for review?

21. (Photos 1535-1540, 1548-1552) The active area was observed and was operating with no concerns noted except for dust being generated on un-watered roads.

Site Operations

1. Were there any notices of violation (NOVs) issued in July 2022?
2. Were there any operational complaints in July 2022?





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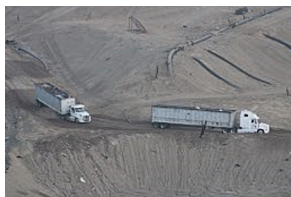
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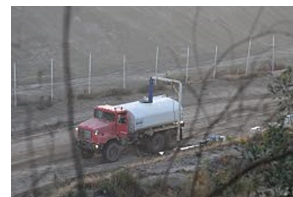
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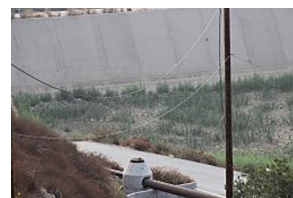
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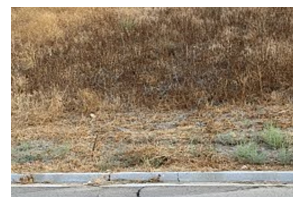
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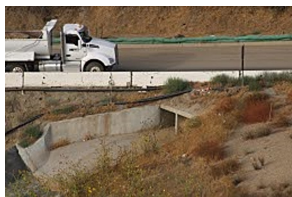


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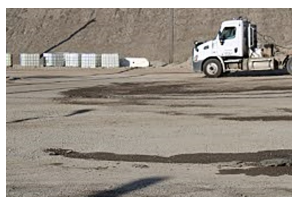
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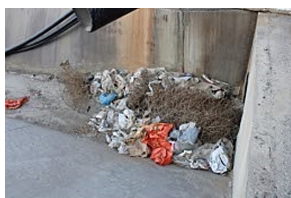
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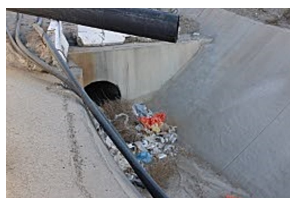
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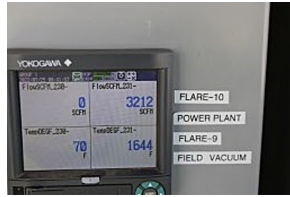
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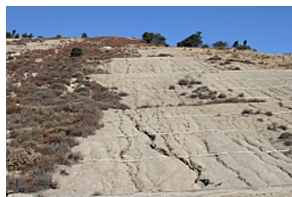


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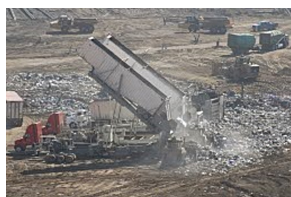
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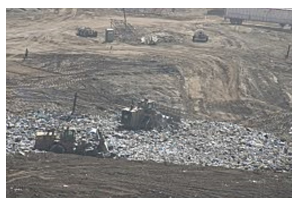
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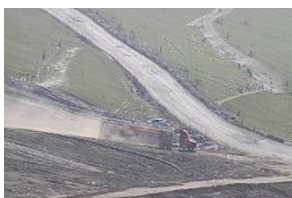
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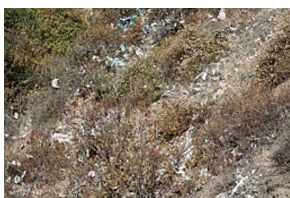
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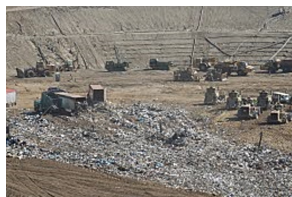
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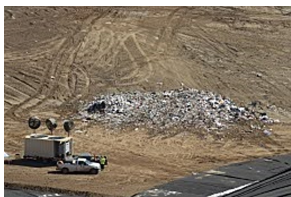
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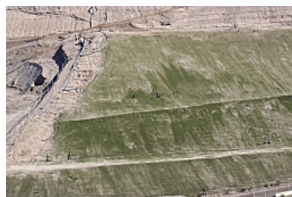


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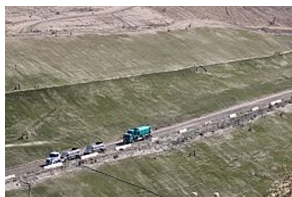


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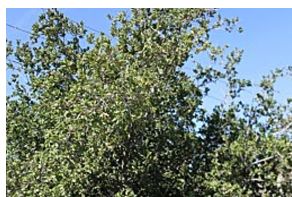
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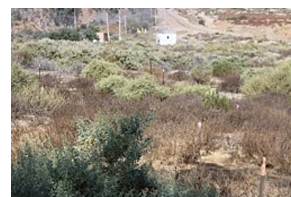
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# August 2022



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 8/22/22
Site Conditions: Clear, 65-90° F, 0-10 MPH winds	
SITE LOG	
<p>Drove the Granada Hills area near Woodley Avenue, the adjacent neighborhood, and school areas from 5:00 to 5:45 a.m. There were no landfill odors detected. There were also no roadway liquid odors detected at Balboa and Woodley, nor at the transition down to San Fernando Road. Met with Mike Lindsay and Michelle Tollett (UltraSystems), Mike Harmon and Robel Mesfin (LACDPW), and Edgar De La Torre (LACDRP). Checked into the site via a phone call to Bill Carr. We then proceeded to monitor the site in separate vehicles and observed the following:</p> <ul style="list-style-type: none"> <li>• The left turning and adjacent northbound lanes on San Fernando Road at the landfill entrance has deep ruts from the heavy truck traffic. The road condition could be a hazard for passenger cars, pickup trucks, and motorcycles.</li> <li>• The landfill site and the start of morning operations were observed were from the City Deck A viewing platform from 6:00 to 6:30 a.m. The prior week's ADC was covered with soil on Saturday. There were no operational issues observed.</li> <li>• The active fill area appeared to be in CC-4 Part 4A and extending back into CC-4 Part 3. There were no operational concerns noted.</li> <li>• The dirt perimeter access road and the final perimeter drainage channel is in place above the final liner elevation from Basin A south to where the new liner installation stops.</li> <li>• The terminal basin has iron oxide colored water flowing from on top of the old 1980-1995 buried paved access road.</li> <li>• A temporary dirt dam was constructed to stop the alluvial water flow. The cut-off wall pumps appear to be off. Water was ponding in the terminal basin.</li> <li>• The terminal basin was not cleared of sediment. Some sediment had tall vegetation growing in it.</li> <li>• Soil was being imported and placed on the new access road. Final road and drainage design drawings are not available to the monitor.</li> <li>• The paved employee access road continues to crack, lift, and separate.</li> <li>• The buried liquids HDPE pipe from the liner low point pump to the Adler tanks is not covered with soil and is exposed to vehicle traffic.</li> <li>• The Adler liquids treatment facility was operating with no concerns noted.</li> <li>• The eastside drainage channel was not cleared of sediment, brush, and debris. Vegetation is also growing in and adjacent to the channel. The channel wall downstream of Basin B has had the dirt washed away from the back of the concrete.</li> </ul>	

Page 2 of 2, 8/22/22:

- The exit ramp at the scales had potholes filled with water.
- Basin B had windblown litter in the back native hillside vegetation. Sediment, brush, and debris has not been removed.
- Double belly dump trucks were hauling and dumping soil on the top deck north of the current operations.
- Basin A was cleared of sediment and ready for winger use.
- Michelle Tollett was monitoring and evaluating the condition of the vegetation and trees at the City Deck's B and C mitigation areas and the PM-10 berm.

Flare Operating Conditions:

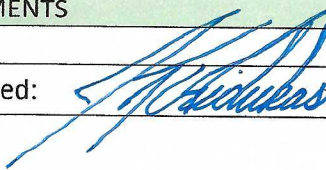
- Flare 1 – not monitored
- Flare 3 – not operating
- Flare 9 – not operating
- Flare 10 – 1651°F, 3874 SCFM
- Flare 11 – 1648°F, 5008 SCFM

The gas-to-energy plant was using 4524 SCFM of recovered landfill gas.

FURTHER REVIEW NEEDED

COMMENTS

Signed:





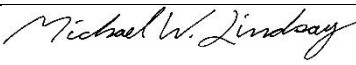
**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 08-22-2022 Monday
Site Conditions: Foggy then Clear, 66–93 °F, SW 2–10 mph, 88% RH, 53 AQI	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. No odors are present in the adjacent neighborhood and school at 5:50 am.</li> <li>2. The westbound left turn lane along San Fernando Road at landfill entrance has deep depressions that are 60 feet long, caused by heavy trucks braking. These humps and depressions could be a road hazard.</li> <li>3. Checked into office via phone with Bill Carr (Republic Services).</li> <li>4. Met with Jim Aidukas and Michelle Tollett (UltraSystems), Mike Harmon and Robel Mesfin (LACDPW), and Edgar De La Torre (LACDRP) following in separate vehicles to site locations.</li> <li>5. Observed overall landfill operations from observation deck, including working areas at Cell CC-4 Part 4A and 4B. Tippers, water trucks and utility lights are present for pre-dawn work.</li> <li>6. ADC at the active working face is covered with soil from Saturday's operations.</li> <li>7. Water trucks are applying water to site for dust control.</li> <li>8. Working area at Cell CC-4 Part 4A is in good order, with four tippers in place.</li> <li>9. The terminal basin has brown-colored water dammed above the cutoff wall, with clear water bubbling up through gravel below the wall. Two water samples were taken, one from each location.</li> <li>10. Double bottom dump trucks are importing soil, with some going up the County top deck stockpile area, and others placing dirt along the new entrance road construction area.</li> <li>11. Took GPS elevation data from top of new entrance road to bottom, where it terminates at the main haul road across from the terminal basin.</li> <li>12. The Adler tank farm facility is in good order, with no odors present.</li> <li>13. The secondary containment road drain at the Adler tank farm is clogged with vegetation.</li> <li>14. The eastside drainage channel has vegetation growing in concrete cracks.</li> <li>15. The admin and LEA facility are in good order.</li> <li>16. The scales are generally in good order, with some potholes present at exit ramps.</li> <li>17. Much of the eastside drainage channel has been scraped clean, with sediment piled for removal.</li> <li>18. An eastside drainage culvert is still blocked with vegetation and soil south of Basin B.</li> <li>19. The bowl area by basin B is in good order, with no odors present.</li> <li>20. Sediment basin B is mostly dry, with debris at back of basin.</li> <li>21. The north side of the eastside drainage channel near the blocked culvert has been severely undermined by erosion.</li> <li>22. Flare 9 is offline.</li> <li>23. Flare 10 is operating at 3874 scfm, 1651 °F. Gas sample measured at 39 % Vol. CH<sub>4</sub>, 1.4 % Vol. O<sub>2</sub>, 230 ppm CO, and 62 ppm H<sub>2</sub>S. Gas inlet temperature is 124 °F. Blowers 1, 2, 3, 4, 5 and 6 are operating. Gas inlet temperature is 137 °F.</li> <li>24. Flare 11 is operating at 5008 scfm, 1648 °F.</li> <li>25. No landfill gas odor is present at the blower 5 outlet flange.</li> <li>26. A drainage channel below (southwest) of the flare pad is blocked with soil and a live tree.</li> <li>27. Perimeter drainage channel at flare pad is in good order, with sediment covering bottom of channel.</li> <li>28. The secondary access road is in good order, with the perimeter gate propped open.</li> <li>29. Observed a small working face active on the north-end of the County top deck, across from basin D. Packer trucks and moving floor trucks are unloading trash.</li> </ol>	

30. Took GPS elevation data at seven landfill gas recovery wells at the north County top deck to calculate stockpile soil volumes.
31. The basin D storage yard is in good order, with scrap materials being removed.
32. Basin D is in good order.
33. The westside drainage channel is in good order, clear of sediment.
34. The County sage mitigation slopes are in good order.
35. Traffic spotters are onsite to control traffic.
36. The County top deck is in good order.
37. The PM-10 oak trees are in good condition, but with several dead trees present.
38. City deck C sage mitigation area has new green growth throughout.
39. Yellow mustard weed is growing throughout the City sage mitigation decks.
40. Water misters are operating along the west perimeter slopes.
41. Street sweepers are cleaning the haul roads.
42. Water misters are operating along the main haul road near landfill entrance.
43. Checked out of office with Bill Carr via phone.


**FURTHER REVIEW NEEDED**

1. Notify City about road humps near entrance at San Fernando Road.
2. Clear the road drain at the Adler tank farm.
3. Remove vegetation from eastside drainage channel.
4. Unblock eastside drainage culvert southeast of sediment basin B.
5. Repair eastside drainage channel undermined by erosion.
6. Clear drainage below flare pad of soil and tree.
7. Remove yellow mustard weed from City sage mitigation decks.
8. Replace dead oak trees at PM-10 berm.

Signed: 



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Michelle Tollett	Page: 1 of 1
Discipline: Senior Biologist	Date: 08-22-2022      Monday
Site Conditions: Foggy then Clear, 66–93 °F, SW 2–10 mph, 88% RH, 53 AQI	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. Arrived onsite at 8am, checked into office, signed in, met Paul Koster II (Env. Mgr. Republic).</li> <li>2. Met with Jim Aidukas and Mike Lindsay (UltraSystems), Mike Harmon and Robel Mesfin (LACDPW), and Edgar De La Torre (LACDRP) following in separate vehicles to site locations (Deck B &amp; C and PM10 berm).</li> <li>3. Monitored sage mitigation areas – Decks B and C.</li> <li>4. Deck B showed new growth, filling in between the native plant “islands.” Non-native weed abatement looks good.</li> <li>5. Deck C weed abatement effective, with exception of several tree tobacco (<i>Nicotiana glauca</i>) and eucalyptus saplings that should be removed.</li> <li>6. Deck C control of the revegetated native grass beardless wild rye (<i>Elymus triticoides</i>) should cease if new growth is observed. Only non-native grasses should be controlled, notwithstanding the fuel modification requirements for fire safety.</li> <li>7. Deck C post-fire recovery is slow. Very few seedlings observed. Some regrowth of brittlebush (<i>Encelia farinosa</i>) was observed on the eastern slope; however, the western lower slopes are not as successful.</li> <li>8. Suggest reseeding and replanting portions of Deck C.</li> <li>9. Suggest repair of the fire damaged/destroyed irrigation lines near reseed/replanting areas only for reestablishment phase.</li> <li>10. Most of the PM-10 berm coast live oak trees (<i>Quercus agrifolia</i>) are in good condition showing post-fire recovery; however, there are still many dead oaks requiring replacement.</li> <li>11. Collected GPS point data for dead and compromised oaks along the PM-10 berm from the eastern end to the middle portion, approximately at the intersection of the main unpaved road.</li> <li>12. The eastern section contained approximately 40 dead oaks, including saplings that were replanted in 2020–2021.</li> <li>13. The western half of the PM-10 berm dead and/or compromised oaks will be tallied and collected by GPS during the next scheduled revegetation monitoring visit.</li> <li>14. Control of the short-podded mustard (<i>Hirschfeldia incana</i>) in the PM-10 berm area and around all Decks A, B and C would reduce future weed abatement efforts and is required for fuel modification and fire management.</li> <li>15. Checked out of office sign-in sheet.</li> </ol>	
<b>FURTHER REVIEW NEEDED</b>	
<ol style="list-style-type: none"> <li>1. Suggest reseeding and replanting portions of Deck C.</li> <li>2. Suggest repair of the fire damaged/destroyed irrigation lines near reseed/replanting areas only for reestablishment phase in Deck C.</li> <li>3. Allow native grasses to return. Remove yellow mustard weed from City sage mitigation decks.</li> <li>4. Replace dead oak trees at PM-10 berm. Finalize point data collection of dead and compromised oaks on the PM-10 berm.</li> </ol>	
Signed: 	

# September 2022



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: James Aidukas	Page: 1 of 2
Discipline: Project Manager	Date: 9/19/22
Site Conditions: Clear, 55-80° F, 0-10 MPH winds	
<b>SITE LOG</b>	
<p>Drove the Granada Hills area near Woodley Avenue, the adjacent neighborhood, and school areas from 5:15 to 5:50 a.m. There were no landfill odors detected. There were also no roadway liquid odors detected at Balboa and Woodley, nor at the transition down to San Fernando Road. Met with Mike Lindsay (UltraSystems), Gladys Rietze and Alex Garcia (LACDPW), and Edgar De La Torre (LACDRP). Checked into the site via a phone call to Bill Carr. We then proceeded to monitor the site in separate vehicles and observed the following:</p> <ul style="list-style-type: none"> <li>Trucks were staging on San Fernando Road at approximately 5:50 a.m. due to the inbound gate being locked until approximately 6:00 a.m.</li> <li>The left turning and adjacent northbound lanes on San Fernando Road at the landfill entrance has deep ruts that have gotten worse from the heavy truck traffic. This road condition should be repaired. It could be a hazard for passenger cars, pickup trucks, and motorcycles.</li> <li>The landfill site and start of morning operations were observed from the City Deck A viewing platform from 6:00 to 6:30 a.m. The prior week's ADC was covered with soil on Saturday. There were no operational issues observed.</li> <li>The active fill area appeared to be in CC-4 Part 4A and 4B. There were no operational concerns noted.</li> <li>The dirt perimeter access road and the final perimeter drainage channel above the final liner elevation were observed. The perimeter road was not covered with wet weather material.</li> <li>Work was being done in the terminal basin. Approximately 40-50% of the basin has been removed. The alluvial water cut-off wall has been removed and water was being collected and pumped into a HDPE pipe. It could not be determined where the water went and whether it was monitored for sediment or contaminants. Soil was being moved by scrapers further up the canyon toward the employee's access road. Water was observed flowing into the box channel under San Fernando Road. Approximately 50% of the sediment was removed from the basin.</li> <li>The new access road had a significant amount of soil imported since the last monitoring visit. The approved drawings for this road, drainage design for this area and the landfill site, and the final toe berm was not made available to the monitor.</li> <li>The paved employee access road continues to crack, lift, and separate.</li> </ul>	

- The buried liquids HDPE pipe from the liner low point pump to the Adler tanks is not covered with soil where a dirt road crosses it.
- At the Adler tank liquids treatment facility, there was a manual emergency shut-off valve on the hydrogen peroxide storage tank. Should this valve be automated?
- The eastside drainage channel was not cleared of sediment, brush, and debris. Vegetation is also growing in and adjacent to the channel. The channel wall downstream of Basin B has had the dirt washed away from the back of the concrete.
- The scale's exit road was being maintained.
- Basin B had windblown litter in the back native hillside vegetation. Sediment, brush, and debris has not been removed.
- Double belly dump trucks were hauling and dumping soil on the top deck north of the current operations.
- The County sage area had no site improvements. The native areas were doing well in the area where they naturally came back.
- Basin A was cleared of sediment and ready for winter use.
- The sage mitigation decks B and C were doing well. Some areas of select natives were dead.
- The PM-10 trees had many dead trees that had not been replaced.
- 

Flare Operating Conditions:

- Flare 1 – 1626°F, 1966 SCFM
- Flare 3 – 1658°F, 2300 SCFM
- Flare 9 – not operating
- Flare 10 – 1657°F, 2378 SCFM
- Flare 11 – 1648°F, 2454 SCFM

The gas-to-energy plant was using 8942 SCFM of recovered landfill gas. The gas composition was 38% CH<sub>4</sub>, 1.2% O<sub>2</sub>, and 53 PPM H<sub>2</sub>S. The total volume of recovered gas was 18, 040 SCFM.

FURTHER REVIEW NEEDED

COMMENTS

Signed: 



**SUNSHINE CANYON LANDFILL  
MITIGATION MONITORING SITE REPORT**

Monitor: Mike Lindsay	Page: 1 of 2
Discipline: Environmental Engineer	Date: 09-19-2022 Monday
Site Conditions: Partly Cloudy, 54–78 °F, SW 2–12 mph, 90% RH, 29 AQI	
<b>SITE LOG</b>	
<ol style="list-style-type: none"> <li>1. No odors are present in the adjacent neighborhood and school at 5:50 am.</li> <li>2. The westbound left turn lane along San Fernando Road at landfill entrance still has deep depressions that are 50 feet long, caused by heavy truck braking. These humps and depressions could be a road hazard.</li> <li>3. The front entrance inbound gate is closed and locked at 6 AM, causing trucks to enter through the outbound gate.</li> <li>4. Checked into office via phone with Bill Carr (Republic Services).</li> <li>5. Met with Jim Aidukas (UltraSystems), Gladys Rietze and Alex Garcia (LACDPW), following in separate vehicles to site locations.</li> <li>6. Observed overall landfill operations from observation deck, including working areas at Cell CC-4 Part 4A and 4B. Tippers, water trucks and utility lights are present for pre-dawn work.</li> <li>7. ADC at the active working face is covered with soil from Saturday's operations.</li> <li>8. Water trucks are applying water to site for dust control.</li> <li>9. Working area at Cell CC-4 Part 4A is in good order, with five tipplers in place.</li> <li>10. The terminal basin has been excavated, with a low-spot used to pump water out. Brown-colored water is dammed above the cutoff wall, with clear water bubbling up out of the south slope.</li> <li>11. Scrapers are building up soil south of the terminal basin for the final toe berm construction.</li> <li>12. Vegetation is growing throughout the terminal basin north end.</li> <li>13. The terminal basin outlet channel is clear of debris, with no water flowing out.</li> <li>14. Bulldozers are placing soil on top of pump hoses and other pipes for road access to the terminal basin interior.</li> <li>15. Observed construction work at the new sediment basin and entrance roadway, including soil being imported and unloaded around the basin's south perimeter.</li> <li>16. A paleo monitor is present to observe excavation of undisturbed native soil.</li> <li>17. The Adler tank farm facility is in good order, with no odors present.</li> <li>18. Two of the hydrogen peroxide cube storage containers are leaking. We notified Republic operations and discussed with Valarie Moore (Republic Services).</li> <li>19. The secondary containment road drain at the Adler tank farm is clogged with vegetation.</li> <li>20. The eastside drainage channel has vegetation growing in concrete cracks.</li> <li>21. The admin and LEA facility are in good order.</li> <li>22. The scales are generally in good order, with some potholes present at exit ramps.</li> <li>23. Double bottom dump trucks are importing soil.</li> <li>24. Much of the eastside drainage channel has been scraped clean, with sediment piled for removal.</li> <li>25. An eastside drainage culvert is still blocked with vegetation and soil south of Basin B.</li> <li>26. The bowl area by basin B is in good order, with no odors present.</li> <li>27. Sediment basin B floor is covered with sediment and vegetation.</li> <li>28. The north side of the eastside drainage channel near the blocked culvert has been severely undermined by erosion.</li> <li>29. Traffic spotters are onsite to control traffic.</li> <li>30. Flare 9 is offline.</li> </ol>	

31. Flare 10 is operating at 2445 scfm, 1656 °F. Gas sample measured at 38 % Vol. CH<sub>4</sub>, 1.2 % Vol. O<sub>2</sub>, 240 ppm CO, and 53 ppm H<sub>2</sub>S. Blowers 1, 2, 3, 4, 5 and 6 are operating. Gas inlet temperature is 137 °F.
32. Flare 11 is operating at 2445 scfm, 1650 °F. Gas inlet temperature is 127 °F.
33. Sunshine Gas Producers is operating at 8908 scfm.
34. No landfill gas odor is present at the blower 5 outlet flange.
35. A drainage channel below (southwest) of the flare pad is blocked with soil and a live tree.
36. Perimeter drainage channel at flare pad is in good order, with sediment covering bottom of channel.
37. The secondary access road is in good order, with the perimeter gate propped open.
38. The basin D storage yard is in good order.
39. Basin D is in good order.
40. The westside drainage channel is in good order, clear of sediment.
41. Localized dust clouds are present along haul road near basin D.
42. The County sage mitigation slopes are in good order.
43. The County top deck is in good order.
44. Basin A is clear of sediment, ready for the rainy season.
45. Wind-blown trash and debris are present at back of basin A.
46. Flare 3 is operating at 2300 scfm, 1658 °F. Gas sample measured at 40 % Vol. CH<sub>4</sub>, 0.4 % Vol. O<sub>2</sub>, 230 ppm CO, and 59 ppm H<sub>2</sub>S. Gas inlet temperature is 105 °F.
47. Flare 1 is operating at 1966 scfm, 1626 °F. Gas sample measured at 31 % Vol. CH<sub>4</sub>, 1.5 % Vol. O<sub>2</sub>, 445 ppm CO, and 94 ppm H<sub>2</sub>S. Gas inlet temperature is 120 °F.
48. The PM-10 oak trees are in good condition, but with several dead trees present.
49. City decks B and C sage mitigation areas have new green growth throughout.
50. Yellow mustard weed is growing throughout the City sage mitigation decks.
51. Water misters are operating along the west perimeter slopes, with ravens perched at nozzles.
52. Street sweepers are cleaning the haul roads.
53. Water misters are operating along the main haul road near landfill entrance.
54. Checked out of office with Valarie Moore via phone.

#### FURTHER REVIEW NEEDED

1. Notify City about road humps near entrance at San Fernando Road.
2. Ensure front entrance gate is unlocked before 6 AM.
3. Clear the road drain at the Adler tank farm.
4. Repair leaks at hydrogen peroxide cube storage containers.
5. Remove vegetation from eastside drainage channel.
6. Unblock eastside drainage culvert southeast of sediment basin B.
7. Repair eastside drainage channel undermined by erosion.
8. Clear drainage below flare pad of soil and tree.
9. Remove yellow mustard weed from City sage mitigation decks.
10. Replace dead oak trees at PM-10 berm.

Signed:

