

August 13, 2021

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**FIRST SEMIANNUAL 2021 MONITORING REPORT
SUNSHINE CANYON CITY/COUNTY LANDFILL, SYLMAR, CALIFORNIA**

Please find enclosed the first semiannual 2021 monitoring report for the Sunshine Canyon City/County Landfill to comply with the California Regional Water Quality Control Board – Los Angeles Region (RWQCB) Waste Discharge Requirements Order Number R4-2008-0088 and Monitoring and Reporting Program (M&RP) CI-2043, updated July 21, 2009.

This report has been prepared by Geo-Logic Associates on behalf of Browning Ferris Industries (BFI) of California and summarizes January through June 2021 results for groundwater, surface water, leachate, vadose zone, liquid management, and waste disposal monitoring activities that were completed in accordance with M&RP CI-2043. Note, the November 9, 2020 update to M&RP CI-2043 does not become effective until the replacement corrective action program (CAP), which is currently being constructed, is completed and approved by the RWQCB.

During the monitoring period, no violations were issued for the facility. Groundwater quality conditions beneath the Sunshine Canyon City/County Landfill are generally similar to those observed during previous monitoring periods. Water quality protection standards (WQPS) were exceeded for a few analyte/well pairs; however, most of these analyte/well pairs have historically been detected at concentrations exceeding WQPS and their presence has previously been confirmed in retest samples. Accordingly, these analyte/well pairs are analyzed in tracking mode and no significant trends are noted for analyte/well pairs in tracking mode. With respect to WQPS exceedances for analyte/well pairs that are not in tracking mode, no retest samples confirmed WQPS exceedances, and therefore, no new analyte/well pairs were added to tracking mode during the monitoring period. Retesting is currently scheduled for potassium at well DW-1 and for tetrahydrofuran at well MW-1 to verify WQPS exceedances measured during the second quarter 2021 and results will be presented in the Second Semiannual 2021 Water Quality Monitoring Report.

During the first semiannual 2021 monitoring period, methane concentrations did not exceed 5%V at any landfill gas monitoring probe during monthly monitoring.

Leachate, landfill gas condensate, groundwater extracted near the cut-off wall, and groundwater collected from subdrains at the Sunshine Canyon Landfill were discharged to the Los Angeles City sanitary sewer system under City of Los Angeles Bureau of Sanitary permit W-535428.

I certify that all wastes placed at the Sunshine Canyon City/County Landfill were deposited in accordance with the RWQCB's requirements, and that no wastes were deposited outside of the limits permitted for waste disposal at this facility.

I, under penalty of perjury, do hereby state that I have personally examined and am familiar with the information submitted in this document, and to the best of my knowledge, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information contained in the attached report is true, complete, and correct.

If you have any questions regarding this report, please do not hesitate to call Mr. Tuong-Phu Ngo at (818) 362-2096 or email him at TNgo@republicservices.com.

Sincerely,



Chris Coyle
General Manager
Sunshine Canyon Landfill

Water Quality Monitoring Report
First Semiannual (January – June) 2021
Sunshine Canyon Landfill
Facility WDID #L0006014618

Submitted to

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Certification

This Report was prepared in accordance with generally accepted professional hydrogeologic principles and practices. This Report makes no other warranties, either expressed or implied as to the professional advice or data included in it. This Report has not been prepared for use by parties or projects other than those named or described herein. It may not contain sufficient information for other parties or purposes.

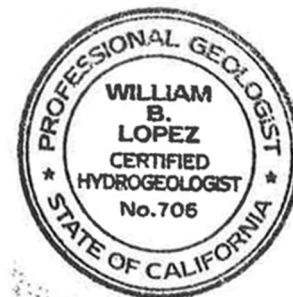
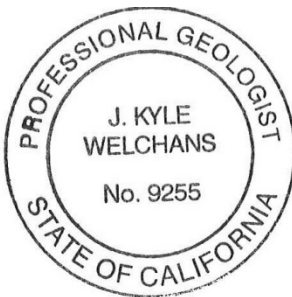
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Table of Contents

1.	Introduction.....	1
2.	General Site Information.....	1
2.1	Site Description.....	1
2.2	Climate and Surface Water Hydrology.....	2
2.3	Hydrogeologic Setting.....	2
2.4	Groundwater Geochemistry.....	3
3.	Groundwater Monitoring.....	3
3.1	Water Quality Monitoring Network.....	3
3.2	Sampling and Laboratory Analysis.....	4
3.3	QA/QC Results.....	4
3.4	Groundwater Elevations.....	6
3.5	Groundwater Chemistry Results.....	6
3.5.1	Fourth Quarter 2020 Retest Groundwater Chemistry Results.....	7
3.5.2	First Quarter 2021 Groundwater Chemistry Results.....	7
3.5.3	Second Quarter 2021 Groundwater Chemistry Results.....	8
3.5.4	Tracking Mode Evaluation.....	9
4.	Vadose Zone Monitoring.....	11
4.1	Subdrain Monitoring.....	11
4.1.1	Subdrain Liquid Monitoring Points.....	11
4.1.2	First and Second Quarter 2021 Subdrain Monitoring Results.....	12
4.2	Lysimeter Monitoring.....	12
4.2.1	Lysimeter Monitoring Points.....	13
4.2.2	First and Second Quarter 2021 Lysimeter Monitoring Results.....	13
5.	Vadose Zone Gas Monitoring.....	13
6.	Surface Water Monitoring.....	14
6.1	NPDES Stormwater Monitoring.....	14
6.2	Stream Diversion Monitoring.....	14
6.3	Other Surface Water Monitoring.....	14
7.	Leachate Monitoring.....	14
8.	Liquid Generation and Management.....	15
8.1	Liquid Management.....	15

9.	Drainage Structure Monitoring	16
10.	Waste Disposal Monitoring	16
11.	Waste Acceptance	17
11.1	First Semiannual 2021 Waste Acceptance Results.....	18
12.	Summary	19
	References.....	21

List of Figures

1	Site Location Map
2	Site Monitoring Point Location Map
3A	March 2021 Groundwater Equipotential Contours
3B	March 2021 Groundwater Equipotential Contours
3C	May 2021 Groundwater Equipotential Contours
3D	May 2021 Groundwater Equipotential Contours
4	Vadose Zone Gas Monitoring Point Location Map

List of Tables

1	Regulatory Compliance Checklist
2	Analytical Parameters and Methods
3A	Summary of Blank Sample Results – First Quarter 2021
3B	Summary of Blank Sample Results – Second Quarter 2021
4A	Summary of Duplicate Sample Results – First Quarter 2021
4B	Summary of Duplicate Sample Results – Second Quarter 2021
5	Groundwater Elevations and Site Monitoring Well Information
6A	Summary of Groundwater Analytical Results – First Quarter 2021
6B	Summary of Groundwater Analytical Results – Second Quarter 2021
7A	Comparison of Intrawell Water Quality Protection Standards to Groundwater Analytical Results – First Quarter 2021
7B	Comparison of Intrawell Water Quality Protection Standards to Groundwater Analytical Results – Second Quarter 2021

- 8A Summary of Analytical Results for Vadose Zone Liquid Monitoring Points – First Quarter 2021
- 8B Summary of Analytical Results for Vadose Zone Liquid Monitoring Points – Second Quarter 2021
- 9 Summary of Methane Concentrations for Vadose Zone Gas Monitoring Points – First Semiannual 2021 Monitoring Period
- 10 Summary of Analytical Results for Stormwater Samples – First Semiannual 2021 Monitoring Period
- 11 Summary of Analytical Results for Leachate Monitoring Points – April 2021
- 12 Summary of Collected Water Sources – First Semiannual 2021 Monitoring Period
- 13 Waste Acceptance Sampling Summary
- 14-26 Waste Acceptance Sampling Results

List of Appendices

- A Sampling and Analysis Plan
- B Field Sample Collection Logs and Laboratory Analytical Reports
- C Landfill Gas Reports
- D NPDES Certification of Completion
- E Waste Placement Areas and Tonnage Reports
- F Waste Acceptance Analytical Results
- G Tracking Mode Trends

Acronyms and Abbreviations

BFI	Browning-Ferris Industries of California, Inc.
COC	Constituents of Concern
COD	Chemical Oxygen Demand
CY	Cubic Yard
DMP	Detection Monitoring Program
EC	Electrical Conductivity
ft/ft	Feet per Foot
GLA	Geo-Logic Associates
LCRS	Leachate Collection and Removal System
LEA	Local Enforcement Agency
µg/L	Micrograms per Liter
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	Milligrams per Liter
MRP	Monitoring and Reporting Program No. CI-2043
MSW	Municipal Solid Waste
ND	Non-Detect
Order	Waste Discharge Requirements R4-2008-0088
ORP	Oxygen Reduction Potential
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
QCAB	Quality Control Ambient (Field) Blank
QCTB	Quality Control Trip Blank
ROWD	Report of Waste Discharge
RPD	Relative Percent Difference
RWQCB	California Regional Water Quality Control Board – Los Angeles Region
SCLF	Sunshine Canyon Landfill
STLC	Soluble Threshold Limit Concentration
TDS	Total Dissolved Solids
TOC	Total Organic Carbon
TTLC	Total Threshold Limit Concentration
%V	Percent by Volume

VOCs	Volatile Organic Compounds
WAP	Waste Acceptance Plan
WQPS	Water Quality Protection Standards

1. Introduction

On behalf of Browning-Ferris Industries of California, Inc (BFI) and Sunshine Canyon Landfill, Geo-Logic Associates (GLA) presents this report summarizing semiannual water quality and waste intake monitoring and reporting performed for the first semiannual 2021 monitoring period (January through June) at the Sunshine Canyon Landfill (SCLF) in the city of Sylmar, California (Figure 1). Included in this report are the field observations and measurements, and laboratory results, for samples collected from site monitoring wells, lysimeters, extraction wells, piezometers, and other SCLF monitoring stations. This report was prepared to comply with the requirements of California Regional Water Quality Control Board – Los Angeles Region (RWQCB) Waste Discharge Requirements Order No. R4-2008-0088 (WDR) and Monitoring and Reporting Program (MRP) No. CI-2043. An overview of report content required by MRP CI-2043 is summarized in Table 1.

Of note, MRP No. CI-2043 was revised on November 9, 2020, though the revision does not become effective until construction of a replacement corrective action program (CAP) is completed and approved by the RWQCB. The replacement CAP is currently under construction.

2. General Site Information

The following provides a summary of the site conditions and includes: site description, climate and surface water hydrology, hydrogeologic setting, and groundwater geochemistry.

2.1 Site Description

The SCLF is an active Class III municipal solid waste (MSW) disposal facility located at 14747 San Fernando Road in Sylmar, California. The site property includes approximately 1,030 acres within the City of Los Angeles and an unincorporated area of Los Angeles County. The "County Landfill" Disposal Phases I through V are located north of the City-County boundary, and are equipped with a composite liner and leachate collection and removal system (LCRS). The "City Landfill" includes two waste disposal areas (Unit 1 and Unit 2) that are south of the City-County boundary. City Landfill Unit 1 is a closed, unlined Class III MSW disposal unit that operated between 1958 and 1993. City Landfill Unit 2 is an active, Class III MSW disposal unit that is equipped with a composite liner system and is located generally between City Landfill Unit 1

and the County disposal phases. Cell A of City Landfill Unit 2 began operations during the third quarter of 2005, with subsequent disposal operations expanding into Cells CC-1, CC-2, CC-3, and most recently, CC-4.

2.2 Climate and Surface Water Hydrology

SCLF is located north of the San Fernando Valley, near the junction of the Santa Susana Mountains to the west and the San Gabriel Mountains to the east. Climatic conditions in the area are semi-arid and characterized by mild winters, when most of the precipitation occurs, and warm dry summers. The average annual precipitation in the area of Sunshine Canyon is approximately 22 inches. During the period from 1941 to 1995 the maximum annual precipitation was 55.8 inches; the minimum was 10.2 inches. The maximum expected 100-year, 24-hour storm is approximately 12 inches.

The facility is located within the 900-square-mile Los Angeles River Watershed Basin. Surface water runoff originating in Sunshine Canyon exits through the mouth of the canyon, where it is conveyed in a southerly direction.

2.3 Hydrogeologic Setting

The SCLF is underlain predominantly by marine sedimentary rocks of the late Miocene to early Pliocene Towsley Formation, consisting of siltstone and fine-grained sandstone interbedded with lenses of coarse-grained sandstone and conglomerate. This unit is locally overlain by younger sedimentary deposits consisting of alluvium, colluvium, and/or landslide debris that consist of varying mixtures of unconsolidated sand, gravel, silt, and clay derived from the Towsley Formation. These unconsolidated alluvial materials were originally present in many of the canyon thalwegs that cross the site, but, in most instances, these materials have been removed as part of site development. Where alluvium remains, it may be up to 30 feet thick.

Groundwater beneath the site occurs in two main zones: 1) a shallow, unconfined water-bearing zone consisting of alluvial deposits and/or upper weathered portions of the bedrock, and 2) a deeper, locally confined water-bearing zone in the Towsley Formation. The hydraulic conductivity of the bedrock (including both weathered and unweathered portions) ranges from 2.8 to 2.8×10^{-6} feet per day (ft/day) with values generally increasing with increasing weathering and fracture density. The hydraulic conductivity of the alluvial deposits is estimated to be from 28.3 to 0.28 ft/day.

2.4 Groundwater Geochemistry

Previous hydrogeologic investigations conducted for the SCLF have identified significant spatial variability in groundwater chemistry beneath the site. The surrounding Santa Susana Mountains are an area of ongoing, extensive oil exploration and production, as indicated by the oil production facilities surrounding the site. The region is characterized by several east-west trending fault systems that locally serve as large-scale crude oil traps. Upward seepage of crude oil and related brines along these faults, and their subsequent contact with site groundwater, have been documented at numerous locations at the SCLF. The presence of shallow crude oil deposits coupled with the low permeability of bedrock materials has resulted in extensive areas of reduced (poorly oxygenated) groundwater beneath the facility with locally elevated concentrations of alkalinity, ammonia-nitrogen, and, in some cases, sulfide. In addition, pre-landfill monitoring has confirmed the presence of locally elevated concentrations of chloride, total organic carbon (TOC), chemical oxygen demand (COD), and potassium. These constituents have also been measured at high concentrations in samples of landfill leachate.

Beneficial uses of groundwater beneath the site are limited as a result of naturally-occurring, elevated concentrations of total dissolved solids (TDS) and the low groundwater production capability for wells screened in the bedrock.

3. Groundwater Monitoring

This section provides a summary of the water quality monitoring program for the site, as well as the monitoring activities, results, and conclusions based on data obtained during the first semiannual 2021 monitoring period.

3.1 Water Quality Monitoring Network

The Monitoring and Reporting Program CI-2043 establishes the following groundwater monitoring network for the SCLF:

MONITORING POINTS	MONITORING POINT ID	MONITORING FREQUENCY
Upgradient Monitoring Wells - Bedrock	CM-9R3, CM-10R, CM-11R	Quarterly
Downgradient Monitoring Wells – Alluvium	MW-1, MW-5, MW-6, MW-13R, MW-14	
Downgradient Monitoring Wells – Bedrock	DW-1, DW-2, DW-3, DW-5, PZ-2, PZ-4	
Corrective Action Evaluation Wells	MW-2A, MW-2B, MW-9, DW-4	
Piezometers	PZ-1, PZ-3, CM-5, MW-8	
Subdrains	Subdrain N, Combined Subdrains	
Lysimeters	LY-6, LY-7	
Leachate Monitoring Points	LR-2R, Deep Leachate*	Annual

Note: In November 2018 Leachate monitoring points “CA-L” and “Leachate” were plumbed together. Moving forward, a composite sample will be collected from “Deep Leachate”, which reflects a mixture of leachate from all lined cells at the facility.

3.2 Sampling and Laboratory Analysis

Groundwater samples collected by GLA during the first and second quarter 2021 monitoring events were submitted to Eurofins Calscience (Eurofins) of Irvine, California. Eurofins is certified by the state of California and is the project laboratory under contract to BFI. Samples were analyzed for the indicator parameters during the first and second quarter 2021 and also for supplemental parameters during the second quarter 2021 (Table 2). In addition to the monitoring parameters, Table 2 includes laboratory analytical methods employed for the project, and the frequency that wells and other media monitoring stations are sampled. Site groundwater monitoring wells and leachate monitoring points are sampled in accordance with the sampling and analysis procedures detailed in Appendix A.

3.3 QA/QC Results

The quality assurance/quality control (QA/QC) program completed for the first semiannual 2021 water quality monitoring period included analyses of field blanks (QCAB), trip blanks (QCTB), laboratory method blanks, and duplicate samples. Field and trip blanks were analyzed for

volatile organic compounds (VOCs) by EPA Method 8260. Laboratory method blanks were analyzed for all monitoring parameters, and duplicate samples were analyzed for the same list of parameters required for its corresponding primary sample. Blank sample results are summarized in Tables 3A and 3B. Duplicate sample results are presented in Tables 4A and 4B. The results of the QA/QC sampling program are as follows:

First Quarter 2021 Monitoring Event

- All analyses were completed within the recommended holding times prescribed by the respective analytical method.
- As indicated on Table 3A, trace concentrations of tetrahydrofuran were measured in two field blank samples. Tetrahydrofuran was also detected in primary samples from two monitoring locations (MW-9 and Subdrain N) which have a history of tetrahydrofuran detections. The presence of tetrahydrofuran in field blank samples did not affect the interpretation of primary sample results, as the current tetrahydrofuran results for MW-9 and Subdrain N are similar to historical results for these monitoring points. In addition, trace concentrations of three tentatively identified compounds (TICs) were measured in field and trip blank samples. No further discussion of results for TICs in any first quarter 2021 samples is provided given that these compounds are “tentatively identified”. Results for TICs are included in analytical reports in Appendix B.
- As shown in Table 4A, the relative percent difference (RPD) between quantifiable primary and duplicate water quality samples was two percent or less, indicating good agreement between primary and duplicate samples.

Second Quarter 2021 Monitoring Event

- All analyses were completed within the recommended holding times prescribed by the respective analytical method.
- As indicated on Table 3B, trace concentrations of acetone and tetrahydrofuran were measured in one or more field blank samples. In addition, bicarbonate, calcium, and iron were also measured in method blanks. Due to similar concentrations in method blanks, acetone and tetrahydrofuran are flagged as a field/laboratory contaminant in the sample from Subdrain N. Concentrations of bicarbonate, calcium, and iron were measured at much higher concentrations in primary samples compared to blank samples and therefore, the presence of these inorganic constituents in blank samples did not affect the interpretation of primary sample results.

- Several tentatively identified compounds (TICs) were measured at trace concentrations in blank samples. No further discussion of results for TICs in any second quarter 2021 samples is provided given that these compounds are “tentatively identified”. Results for TICs are included in analytical reports in Appendix B.
- As shown on Table 4B, the RPD for quantifiable primary and duplicate sample results is seven percent or less.

The results of the QA/QC program completed during the first semiannual 2021 monitoring period are considered acceptable and representative of water quality at the site.

3.4 Groundwater Elevations

During the first semiannual 2021 monitoring period, quarterly depth to groundwater measurements were recorded on March 4 and May 17, 2021. Groundwater equipotential surface contours were developed for wells screened in bedrock using first and second quarter 2021 groundwater elevation data. Figures 3A and 3C depict groundwater elevation contours overlain on a topographic map for the March and May 2021 monitoring events (respectively). Because there is an underdrain system at the site which de-waters areas beneath landfill cells, groundwater contours mimic bottom of landfill liner elevations. Accordingly, Figures 3B and 3D depict groundwater contours for the March and May 2021 monitoring events (respectively), and include landfill liner elevations for clarity. As shown in these figures, groundwater generally mimics the canyon topography, converges at the base of the canyon, and flows to the southeast out the mouth of the canyon. The estimated horizontal groundwater velocity within the unweathered bedrock is approximately 1 to 10 feet per year (Geo-Logic Associates, 2009).

Comparison of groundwater elevations for wells screened in alluvium and bedrock suggest the possibility of appreciable upward vertical gradients may occur near the mouth of the canyon. Assuming communication between these water-bearing zones exists, the upward vertical gradient near the mouth of the canyon is approximately 0.06 to 0.08 ft/ft near well pairs MW-1/DW-5 and MW-2A/DW-4.

3.5 Groundwater Chemistry Results

Groundwater samples collected from site monitoring wells were analyzed for indicator parameters during the first quarter 2021 monitoring period, and for indicator and supplemental parameters during the second quarter 2021 monitoring period. Results for these sampling events are summarized on Tables 6A and 6B (respectively), and are discussed below. The field

sample collection logs, laboratory data, certificates of analyses, and chain-of-custody records for the sampling program are included in Appendix B.

3.5.1 Fourth Quarter 2020 Retest Groundwater Chemistry Results

Groundwater monitoring results for the fourth quarter 2020 monitoring event indicated that concentrations of TDS at well DW-1 and toluene at well DW-5 exceeded respective intrawell water quality protection standards (WQPS). Because these analyte/well pairs are not in tracking mode, retest samples were collected on February 23, 2021. The results are summarized in the following table.

WELL	ANALYTE	UNITS	WQPS	4 TH QUARTER 2020 RESULT	RETEST RESULT (1)	RETEST RESULT (2)
DW-1	Total Dissolved Solids	mg/L	3600.2	8300	3300	3200
DW-5	Toluene	µg/L	PQL	0.57	ND	ND

Note: "ND" – Not detected.

PQL – Practical Quantitation Limit

As shown in the table above, no retest samples exceeded the respective WQPS. Therefore, these analyte/well pairs will remain in detection mode.

3.5.2 First Quarter 2021 Groundwater Chemistry Results

During the first quarter 2021 monitoring event, samples from all monitoring wells were analyzed for the indicator parameters identified in Section II.B.3(a) of the MRP. These results are presented on Table 6A. Table 7A compares first quarter 2021 monitoring results with WQPS. The following table summarizes WQPS exceedances and verification retesting results (when applicable).

WELL	ANALYTE	UNITS	WQPS	1 ST QUARTER 2021 RESULT	RETEST RESULT (1)	RETEST RESULT (2)
MW-1	1,4-Dioxane	µg/L	VOC	13	TM	TM
MW-5	1,4-Dioxane	µg/L	VOC	4.7	TM	TM
MW-13R	1,4-Dioxane	µg/L	VOC	7.8	TM	TM
PZ-2	Ammonia-Nitrogen	mg/L	3.598	3.6	3.2	3.2

Notes: Retesting only performed on analyte/well pairs not currently in Tracking Mode.

TM – Tracking Mode. No retesting conducted for analytes in Tracking Mode.

VOC – WQPS is one quantifiable detection or two or more estimated-trace detections.

ND - Not detected.

j – Estimated-trace concentration.

* - Also detected in blank samples.

With the exception of PZ-2 results, all constituents exceeding respective intrawell WQPS listed in the table above have historically been detected and their presence confirmed in retest samples. Accordingly, these analyte/well pairs are currently in “tracking mode” and retesting was not conducted. As shown in the preceding table, no retest results exceeded a respective WQPS. Therefore, these analyte/well pairs will remain in detection mode.

With respect to corrective action evaluation monitoring wells, four VOCs (two quantifiable) were measured in the sample from well MW-9 and one quantifiable VOC was measured in the sample from well MW-2A (Table 6A).

None of the analyte concentrations measured in samples collected during the first quarter 2021 monitoring period exceeded Federal or State primary drinking water Maximum Contaminant Levels (Table 6A). However, TDS results for all monitoring wells exceeded state secondary drinking water standards.

3.5.3 Second Quarter 2021 Groundwater Chemistry Results

Groundwater samples obtained during the second quarter 2021 monitoring event were analyzed for the indicator and supplemental parameters (Table 2). Analytical results for these samples are presented on Table 6B. As summarized below, and shown in Table 7B, the following well/constituent pairs exceeded a WQPS.

WELL	ANALYTE	UNITS	WQPS	2 ND QUARTER 2021 RESULT
MW-1	1,4-Dioxane	µg/L	VOC	17
	t-Butanol	µg/L	VOC	9.6
	Tetrahydrofuran	µg/L	VOC	1.7j
MW-5	1,4-Dioxane	µg/L	VOC	4.2
MW-13R	1,4-Dioxane	µg/L	VOC	7.3
DW-1	Potassium	mg/L	3.838	7.3

Notes: j – estimated trace detection.

VOC – WQPS is one quantifiable detection or two or more estimated-trace detections.

With the exception of potassium at DW-1 and tetrahydrofuran at well MW-1, the analyte/well pairs listed above are currently in “tracking mode”. Verification retesting is currently scheduled for potassium at DW-1 and tetrahydrofuran at well MW-1. Results of verification retesting will be included in the July through December 2021 Semiannual Monitoring Report.

With respect to corrective action evaluation monitoring wells, one quantifiable VOC was measured in the sample collected from well MW-2A and six VOCs (four quantifiable) was measured in the sample from well MW-9 (Table 6B).

As shown on Table 6B, with respect to the routine indicator and supplemental monitoring parameters, concentrations of TDS, sulfate, fluoride, iron, and manganese exceed State of California primary (fluoride) or secondary drinking water standards in samples from many site monitoring wells, including upgradient (background) monitoring wells.

3.5.4 Tracking Mode Evaluation

During the first semiannual 2021 monitoring period, no new analyte/well pairs were added or removed from tracking mode (analyte/well pairs are removed from tracking mode when monitoring results have not exceeded respective concentration limits in more than three years). Time-series charts depicting well-analyte pairs in tracking mode are presented in Appendix G. The following table summarizes analytical trends and observations for analyte/well pairs in tracking mode.

WELL/ANALYTE PAIR	CONCENTRATION LIMIT	1 ST QUARTER RESULTS	2 ND QUARTER RESULTS	HISTORICAL TRENDS AND OBSERVATIONS
MW-1: 1,4-Dioxane	PQL	13	17	Consistent variable concentrations typically below 20 µg/L.
MW-1: t-Butanol	PQL	ND	9.6	One detection since 2018.
MW-5: 1,4-Dioxane	PQL	4.7	4.2	Consistently measured above the PQL. Decreasing trend since 2018
MW-5: t-Butanol	PQL	ND	ND	Not detected since February 2020.
MW-5: Ammonia-N	5.714 mg/L	4.6	4.0	Below WQPS since 2019.
MW-5: Alkalinity	727.34 mg/L	480	450	Rarely detected at concentrations above WQPS.
MW-5: Tetrahydrofuran	PQL	ND	ND	One measurement above WQPS.
MW-13R: 1,4-Dioxane	PQL	7.8	7.3	Variable concentrations between 4 µg/L and 11 µg/L since 2015.
MW-13R: Potassium	27.224 mg/L	22	24	Below WQPS since 2019.
MW-13R: Ammonia-N	7.732 mg/L	6.9	5.9	Typically near WQPS (above or below) except one outlier in February 2020.
MW-13R: COD	407.58 mg/L	200	140	Only two historical measurements above WQPS.
MW-14: Alkalinity	587.83	310	310	Only one WQPS since 2018.
MW-14: TDS	5128.5	3300	3100	Variable concentrations since 2017. Typically below the WQPS.
DW-3: Ammonia as N	0.7564 mg/L	0.64	0.69	Results are typically very near (above & below) the WQPS, except for four anomalous results in 2014, 2016, 2018, and 2019.
DW-5: Ammonia as N	0.3918 mg/L	0.34	0.28	Decreasing trend; below WQPS since 2020.
DW-5: Allyl Chloride	PQL	ND	ND	Intermittent detections; not detected recently.
PZ-4: Ammonia-N	2.976	2.7	2.3	Only two historical measurements slightly above the WQPS.

Note: **Bolded Red** = Concentration Limit Exceeded.

ND = Not Detected.

j = Estimated-trace concentration.

4. Vadose Zone Monitoring

Monitoring of the vadose zone at the SCLF is accomplished by collecting samples from the subdrains beneath composite liner systems at the site as well as from the pan lysimeters constructed beneath the leachate collection sumps for the lined portions of the landfill.

4.1 Subdrain Monitoring

Order No. R4-2008-0088 requires quarterly monitoring of landfill subdrain systems. As with groundwater, samples from each subdrain collection point are analyzed for indicator parameters on a quarterly basis and for supplemental parameters on a semiannual basis.

4.1.1 Subdrain Liquid Monitoring Points

Currently, the SCLF is equipped with four subdrain sampling points: Subdrain N, CC2-PER, CC2-5AC, and CC2-3A. Samples for CC2-PER, CC2-5AC, and CC2-3A are composited as one sample called "Combined Subdrains". Accordingly, samples obtained from locations Subdrain N and Combined Subdrains are submitted for laboratory analyses.

Subdrain N liquid samples are collected from a port on the influent line to the facility's water treatment system, located near San Fernando Road. This sample represents the combined flow from subdrain collection systems installed beneath County Landfill disposal Phases I through V, and Cells A and CC-1 of City Landfill Unit 2.

Subdrain CC2-5AC liquid samples are pumped from a temporary vertical riser pipe located southeast of disposal Cell CC-3A, Part 1. The CC2-5AC liquid samples represent groundwater seepage to a subdrain collection system that underlies the southwest corner of Cell CC-2 at depths of approximately 10 to 30 feet below the CC-2/CC-3A, Part 1 liner system.

Samples from Subdrain CC2-PER are collected from a temporary outlet pipe located southeast of disposal cell CC-3A, Part 1. These samples represent groundwater seepage collected beneath the western margin of disposal cell CC-2. The subdrain CC2-PER collection system is approximately 10 feet below the CC-2/CC-3A Part 1 liner system and is perforated only along the western edge of CC-2 liner system. The CC2-PER subdrain system is hydraulically separated from adjacent (and partially overlapping) portions of subdrain liquid collection system CC2-5AC.

Subdrain CC2-3A likely collects liquids from the area of unlined City Landfill Unit 1. Because of the likelihood of landfill impacts to subdrain CC2-3A liquids, this subdrain outlet was established

with an angled riser and dedicated pumping system, so that liquids are collected and discharged to the sewer (City of Los Angeles Bureau of Sanitation permit W-535428). Subdrain CC2-3A liquid samples are collected from pumped discharge from this angled riser.

4.1.2 First and Second Quarter 2021 Subdrain Monitoring Results

Samples were collected from each subdrain monitoring point on March 4, 2021 for the first quarter and on May 17 and 18, 2021 for the second quarter. Samples were delivered to Eurofins for analyses of the indicator parameters (first and second quarter) and supplement parameters (fourth quarter).

As shown on Tables 8A (first quarter 2021) and 8B (second quarter 2021), the samples from Subdrain N and combined subdrains contained up to five and 16 VOCs (respectively; excluding laboratory/field contaminants). VOCs with the highest concentrations in first and second quarter 2021 Subdrain samples include:

- Subdrain N: t-butanol and 1,4-dioxane.
- Combined Subdrains: Acetone, 1,4-dichlorobenzene, 1,4-dioxane, t-butanol, and 2-butanone.

With the exception of 1,4-dichlorobenzene results in combined subdrain samples, all VOC concentrations in subdrain samples were measured below State and federal drinking water standards during the current monitoring period. As is typical for SCLF subdrain samples, concentrations of sulfate, fluoride, TDS, iron, and manganese exceeded state secondary drinking water standards.

4.2 Lysimeter Monitoring

Order No. R4-2008-0088 requires construction and monitoring of lysimeters beneath landfill liner systems. On a quarterly basis, the lysimeters are monitored for the presence of liquids, and sampled if the liquid volume is sufficient. Liquids are pumped through a discharge line from the riser pipes and grab samples are collected, and analyzed for the Order-specific list of indicator parameters (quarterly) and supplemental parameters (semiannually).

4.2.1 Lysimeter Monitoring Points

The SCLF is currently equipped with two lysimeters: LY-6 and LY-7 (Figure 2). LY-6 monitors conditions beneath the County Landfill leachate sump, and is accessed through a 600-foot-long inclined riser at the east side of the Phase V disposal area. Lysimeter LY-7 monitors the conditions between the primary and secondary liners of City Landfill Unit 2, and is accessed using a 360-foot-long inclined riser at the east side of Cell A.

4.2.2 First and Second Quarter 2021 Lysimeter Monitoring Results

Lysimeter samples were collected from LY-7 on March 4 and May 18, 2021. LY-6 was dry during both quarterly monitoring events. As shown on Tables 8A and 8B, six VOCs were detected in samples from LY-7. The majority of VOCs in the sample from LY-7 are in the form of t-butanol, and to a lesser degree, 1,4-dioxane. No VOC concentrations exceeded a State or federal primary drinking water standard. As is typical for SCLF lysimeter samples, concentrations of chloride, TDS, iron, and manganese exceeded the State of California secondary (e.g., aesthetic) drinking water standard in at least one of the quarterly samples from LY-7.

5. Vadose Zone Gas Monitoring

Gas monitoring of the vadose zone is conducted on a monthly basis to comply with Order No. R4-2008-0088 and South Coast Air Quality Management District Rule 1150.1. Vadose zone gas monitoring is conducted by SCS Engineers and includes field screening for methane, carbon dioxide, oxygen, balance gases, and pressure at perimeter probes and upper subdrain termination points. The locations of vadose zone gas monitoring points are shown on Figure 4. Field reports prepared by SCS Engineers are provided in Appendix C.

During the first semiannual 2021 monitoring period, screening of the permanent vadose zone monitoring locations was conducted on a monthly basis. As shown on Table 9, no results exceeded five percent by volume (%V). The highest concentration of methane measured during the monitoring period was 2.3 %V at probe P-205R in May 2021. Excluding P-205R, no probes contained methane at or above 1.0 %V.

6. Surface Water Monitoring

This section of the report presents the results of the storm water, stream diversion, and seeps and spring monitoring activities conducted during the first semiannual 2021 monitoring period. Locations of surface water sampling points are shown on Figure 2.

6.1 NPDES Stormwater Monitoring

Landfill personnel periodically monitor the quality of storm water as part of the general NPDES Permit adopted for the facility, and additional storm water monitoring is conducted as part of the SCLF waste acceptance monitoring program. A summary of results of stormwater samples collected from the terminal basin (MP-1) at the SCLF is presented in Table 10.

6.2 Stream Diversion Monitoring

During the first semiannual 2021 monitoring period, construction activities at the facility were subject to requirements of Stream Bed Alteration Agreement #R5-2003-0005, adopted by the California Department of Fish and Game, though no monitoring of stream water quality was required during the current monitoring period.

6.3 Other Surface Water Monitoring

No new seeps or springs were identified during the current monitoring period.

7. Leachate Monitoring

In accordance with Order No. R4-2008-0088, leachate is to be monitored on an annual basis during the month of October. Grab samples are collected from leachate sumps and are analyzed for 40 CFR Appendix II analytes that are not already a COC for the landfill. Retesting of newly-identified 40 CFR Appendix II constituents (constituents measured at or above respective PQLs) is conducted in April. Those analytes that are present in both the primary and retest samples at concentrations equal to or above respective PQLs are added to the site-specific list of COCs.

The SCLF was equipped with two discrete leachate monitoring points (Figure 2):

- Leachate sample location "LR-2R" monitors leachate accumulation near the base of unlined City Landfill Unit 1.
- Leachate from lined cells (County Landfill Phases I through V and City Landfill Unit 2) collects to a sump and is pumped to above ground tanks before being discharged to the sewer under City of Los Angeles Bureau of Sanitary permit W-535428. This location is referred to as "Deep Leachate" which represents a composite mixture of leachate from all lined cells at the SCLF. Samples are collected from a sample port on a pipe prior to the above ground tanks.

Leachate samples were collected from monitoring point "Deep Leachate" and "LR-2R" on October 5, 2020. Based on the results obtained, retesting was conducted on April 27, 2021 for naphthalene at LR-2R. As summarized on Table 11, a quantifiable concentration of naphthalene was measured in the sample from LR-2R and therefore, naphthalene has been added to the site-specific COC list.

8. Liquid Generation and Management

Ongoing waste disposal operations at the SCLF result in the generation of significant volumes of liquids, including leachate, landfill gas condensate, subdrain liquids, groundwater collected at the extraction trench, groundwater sampling purge water, and seepage water. In accordance with Order No. R4-2008-0088, the volume of water collected, treated, used onsite, and discharged offsite from each source are required to be recorded on a monthly basis (Table 12).

8.1 Liquid Management

During the first semiannual 2021 monitoring period, approximately 23,457,721 gallons of liquid were collected from the SCLF and transferred to the sewer (Table 12; under City of Los Angeles Bureau of Sanitary permit W-535428). In order to supplement water needs, the site purchased approximately 41,862,568 gallons of water from the City of Los Angeles Department of Water and Power (Table 12). Of note, the meter for the cutoff wall has been taken offline due to construction of the front entrance toe berm, though the facility notes the system has been running continuously without interruptions.

9. Drainage Structure Monitoring

Order No. R4-2008-0088 requires periodic site inspections as part of the site's current NPDES storm water permit. Between October and April of each year, inspections are to be conducted following each storm that produces significant runoff or on a monthly basis if no storm event produces significant runoff during this period. Between May and September, inspections are to be made on a quarterly basis. Each inspection is to include the following "standard observations":

- Evidence of surface water leaving or entering the site, including an estimate of the size of the affected area and the estimated flow rate;
- Presence or absence of odors, including characterization, source, and distance of travel from the source;
- Evidence of erosion and/or exposed refuse;
- Inspection of all storm water discharge locations for evidence of non-storm water discharges (during dry season) and integrity (during wet season);
- Evidence of ponded water at any point on the waste management facility (show affected areas on a map); and
- Assessment of compliance with the facility's Storm Water Pollution Prevention Plan, including proper implementation of the terms of the General NPDES Storm Water Permit.

During the first semiannual 2021 monitoring period, the required standard observations were made by site personnel. The site's NPDES certification of completion for the first semiannual 2021 monitoring period is included in Appendix D.

10. Waste Disposal Monitoring

During the first semiannual 2021 monitoring period, the quantity of municipal solid waste deposited at the SCLF was monitored daily. The monthly tonnages of waste deposited at the site are summarized in the following table.

MONTH	WASTE DISPOSAL TONNAGE	ESTIMATED VOLUME (CY)
January	232,879	282,444
February	194,607	262,719
March	226,258	305,448
April	219,318	296,079
May	218,016	294,321
June	238,383	321,817
January – June 2021 Totals:	1,329,461	1,762,828

Note: Waste volumes were calculated using an assumed 1480 pounds per cubic yard of waste.

As summarized in the preceding table, during the first semiannual 2021 monitoring period, approximately 1,329,461 tons of waste was disposed of at the SCLF. The remaining capacity at the SCL is estimated at approximately 69,045,057 cubic yards. Based on the currently approved maximum tonnage acceptance rate, the site has a remaining life of approximately 30 years.

The location of waste placement during the monitoring period is presented on a map in Appendix E.

During the first semiannual 2021 monitoring period, all waste loads accepted at the site were subjected to checking at the scale house. As certified in the transmittal letter for this report, the site allowed no unauthorized waste disposal during the current monitoring period. No wastes were deposited outside of the areas permitted to receive waste.

11. Waste Acceptance

As outlined in the Amended WDRs (March 11, 2011), generators delivering contaminated soils to the SCLF are required to demonstrate that the soil chemistry meets specific requirements through a specific sampling and analysis program. All non-designated, non-hazardous contaminated soils that are brought to the site are disposed of as wastes in the lined sections of the landfill. Accordingly, these soils are required to meet the requirements outlined in Section 2.2 of the Waste Acceptance Plan, Revision 1 (WAP; RMC Geosciences, Inc., 2014).

As required by the Amended WDRs and WAP, prior to delivery to the SCLF, generators are required to collect and analyze representative samples at the following frequency:

- Up to 1000 cubic yards: At least one sample for each 250 cubic yards.
- Between 1000 and 5000 cubic yards: At least 4 samples for the first 1000 cubic yards, and 1 sample for each additional 500 cubic yards.
- More than 5000 cubic yards: At least 12 samples for the first 5000 cubic yards, and 1 sample for each additional 1000 cubic yards.

Samples are required to be analyzed for potential site-specific contaminants by a certified analytical laboratory, and the results are provided to Republic for review, profile development, and determination of acceptability. Republic may request additional sampling or analyses to ensure compliance with the Amended WDRs and WAP.

Analytical results for special wastes are included in Appendix F and are summarized in Tables 13 through 17.

11.1 First Semiannual 2021 Waste Acceptance Results

The contaminated soil generators, analyses performed, type of special waste, and quantity of special waste disposed of during the monitoring period are summarized in Table 13.

When applicable, constituents measured at or above the Method Detection Limit (MDL) were then compared to calculated threshold limit concentrations as detailed in the site-specific Waste Acceptance Plan, Revision 1 (RMC Geosciences, Inc., 2014), and determined to be acceptable for disposal in lined cells if the measured concentrations were below these levels. As stipulated in the Amended WDRs, wastes containing analytes that exceed PRG or CHHSL levels may be accepted if the analyte concentrations do not exceed the respective State of California Hazardous Waste levels (as listed in Title 22 of the California Code of Regulations Section 66261.24) and Total Designated Levels (as calculated following the guidelines in Section C.3 of the Amended WDRs), whichever is lower. When comparing analyte concentrations to California hazardous waste levels, the total analyte concentration must be below its respective Total Threshold Limit Concentration (TTL) and it must be below ten times the Soluble Threshold Limit Concentration (STLC). If a total analyte concentration is more than ten times the STLC value, then the sample must be submitted for a Waste Extraction Test to determine its soluble analyte concentration. To be considered acceptable, the soluble analyte concentration must also be below its respective STLC value.

All special wastes that were disposed of at the SCL during the first semiannual 2021 monitoring period met the waste acceptance requirements of the Amended WDRs and the site-specific WAP (Tables 13 through 26).

12. Summary

During the first semiannual 2021 monitoring period, groundwater elevations and chemistries were generally similar to past monitoring events. No evidence of a new release, or changes in existing release conditions was identified.

During the first semiannual 2021 monitoring periods, concentration limits were exceeded for several analyte/well pairs that have historically been in tracking mode. Review of the tracking mode charts (Appendix G) indicates that there are no increasing trends for tracking mode analyte/well pairs. Retesting performed for analyte/well pairs not in tracking mode, did not confirm any exceedances during the monitoring period. Accordingly, no new analyte/well pairs were added or removed from tracking mode during the first semiannual 2021 monitoring period. Retest results are pending for second quarter 2021 exceedances of potassium at well DW-1 and tetrahydrofuran at well MW-1. The results will be reported in the Second Semiannual 2021 Water Quality Monitoring Report.

During the first semiannual 2021 monitoring period, methane concentrations did not exceed 5%V at any landfill gas monitoring probe during monthly monitoring.

No new seeps were identified during the first semiannual 2021 monitoring period.

Leachate, landfill gas condensate, groundwater extracted near the cut-off wall, and groundwater collected from subdrains at the SCLF were discharged to the Los Angeles City sanitary sewer system. Total volumes from each water source are shown in Table 12.

The following construction activities occurred during the first half of 2021:

- Cell design for Cell CC-5, Part 4B is in progress. The cell is anticipated to be 13 acres in size with construction beginning during the third quarter of 2021.
- Several landfill gas collection and control system upgrades were completed in the first half of 2021, including installations/activations of:

- 50 new and replacement vertical extraction wells,
- 10,000 feet of horizontal gas collectors,
- 16 dewatering pumps in vertical extraction wells,
- Header pipes, air and force main lines, and de-scalers,
- Ongoing construction of the front entrance project (new access roadway).

References

California Regional Water Quality Control Board, Los Angeles Region, 2008, "Order No. R4-2008-0088 – Corrective Action Program Waste Discharge Requirements for Browning-Ferris Industries of California, Inc. (Sunshine Canyon City/County Landfill), File No. 58-076," October 2, 2008.

California Regional Water Quality Control Board, Los Angeles Region, 2009, "Revised Monitoring and Reporting Program (No. CI-2043) for Browning-Ferris Industries of California, Inc. (Sunshine Canyon City/County Landfill), File No. 58-076," July 21, 2009.

Geo-Logic Associates, 2020, "Groundwater Corrective Action System Modification Workplan, Sunshine Canyon City/County Landfill, Los Angeles, California." September 8.

RMC Geoscience, Inc., 2014, "Waste Acceptance Plan, Revision 1, Sunshine Canyon Landfill, Los Angeles County, California." December.

FIGURES

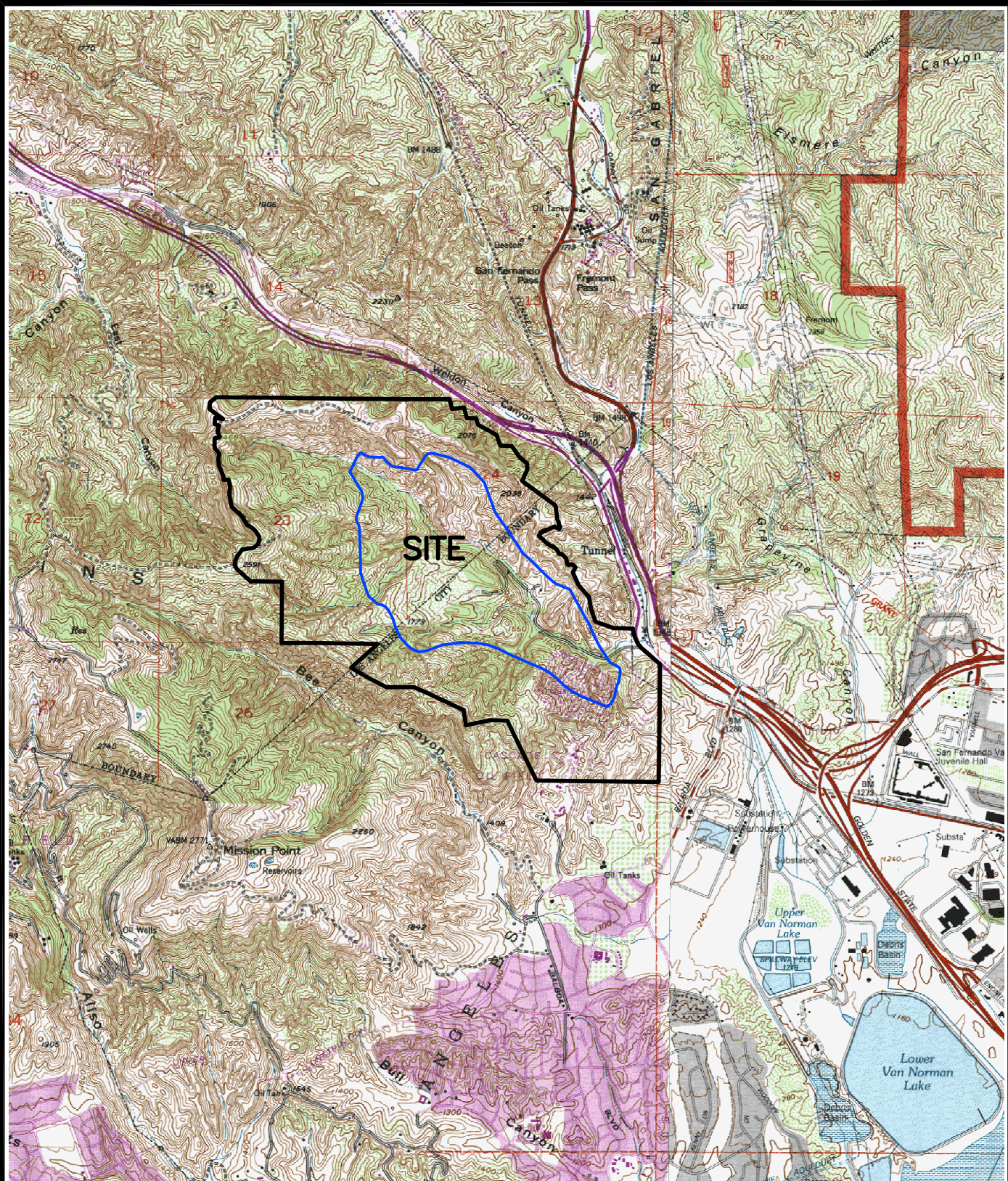


FIGURE 1

SITE LOCATION MAP

FIRST SEMIANNUAL 2021 MONITORING REPORT

SUNSHINE CANYON LANDFILL

LOS ANGELES, CALIFORNIA

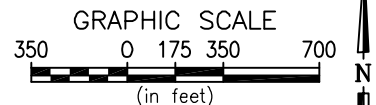
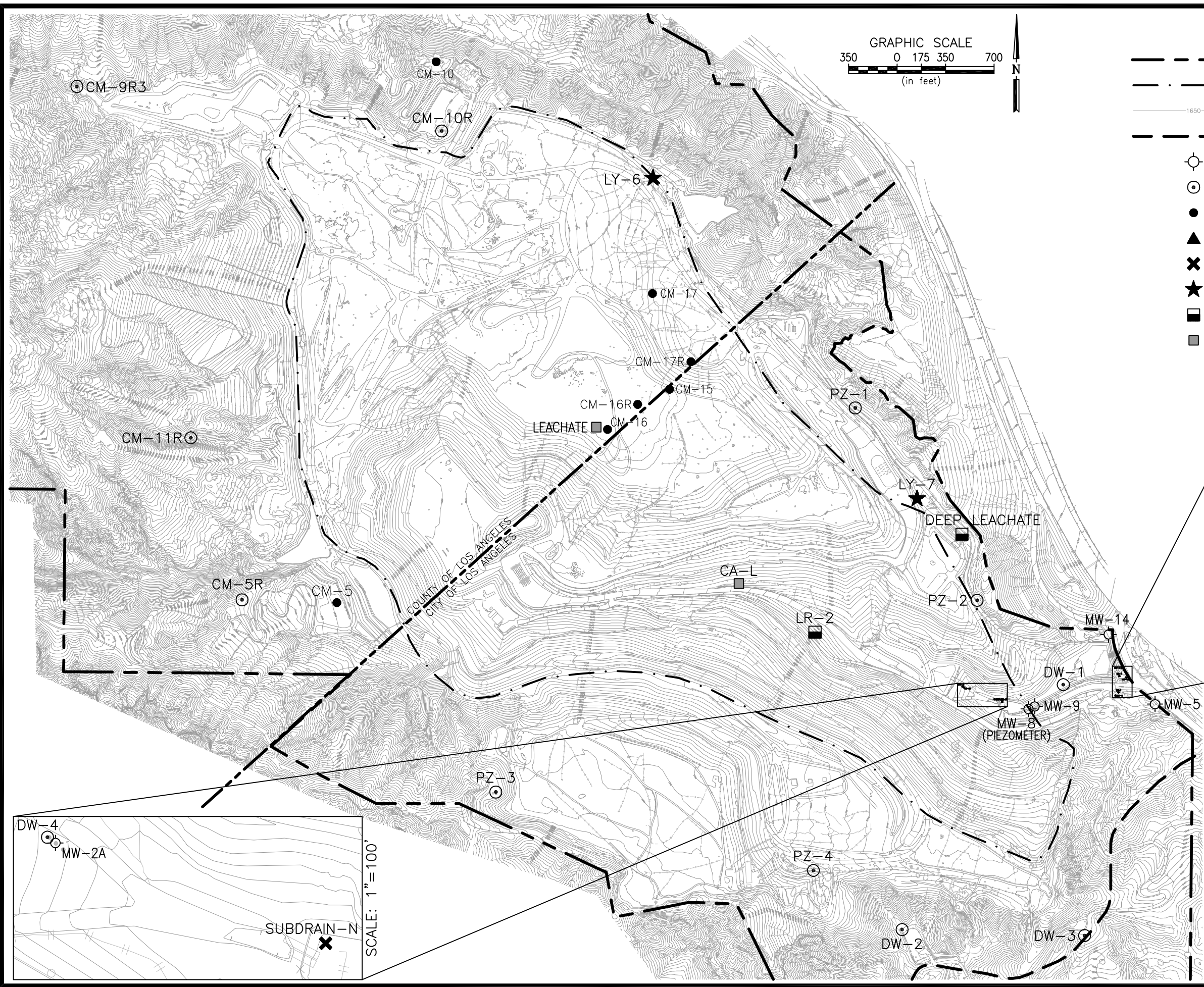


REFERENCE: USGS 7.5 MINUTE SERIES (TOPOGRAPHIC) OAT MOUNTAIN (1969) AND SAN FERNANDO (1995) CALIFORNIA QUADRANGLES.

DRAFTER/PM: VL/KW DATE: AUGUST 2021 JOB NO. S021.1059

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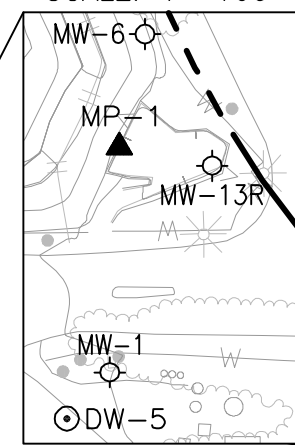
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EXPLANATION:

- APPROXIMATE PROPERTY BOUNDARY
- . - . - APPROXIMATE LIMIT OF REFUSE
- 1650 --- EXISTING GRADE CONTOUR
- APPROXIMATE LOCATION OF SANTA SUSANA FAULT
- (with dot) GROUNDWATER MONITORING WELL (SHALLOW)
- (with circle) GROUNDWATER MONITORING WELL (BEDROCK)
- ABANDONED GROUNDWATER MONITORING WELL
- ▲ SURFACE WATER MONITORING POINT
- ✕ SUBDRAIN MONITORING POINT
- ★ LYSIMETER MONITORING POINT
- LEACHATE MONITORING POINT
- LEACHATE SUMP

SCALE: 1"=100'



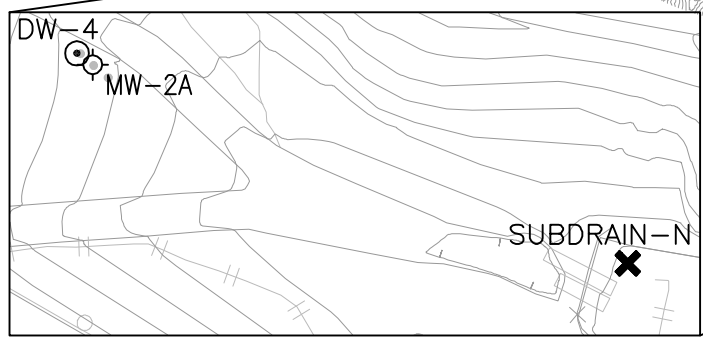
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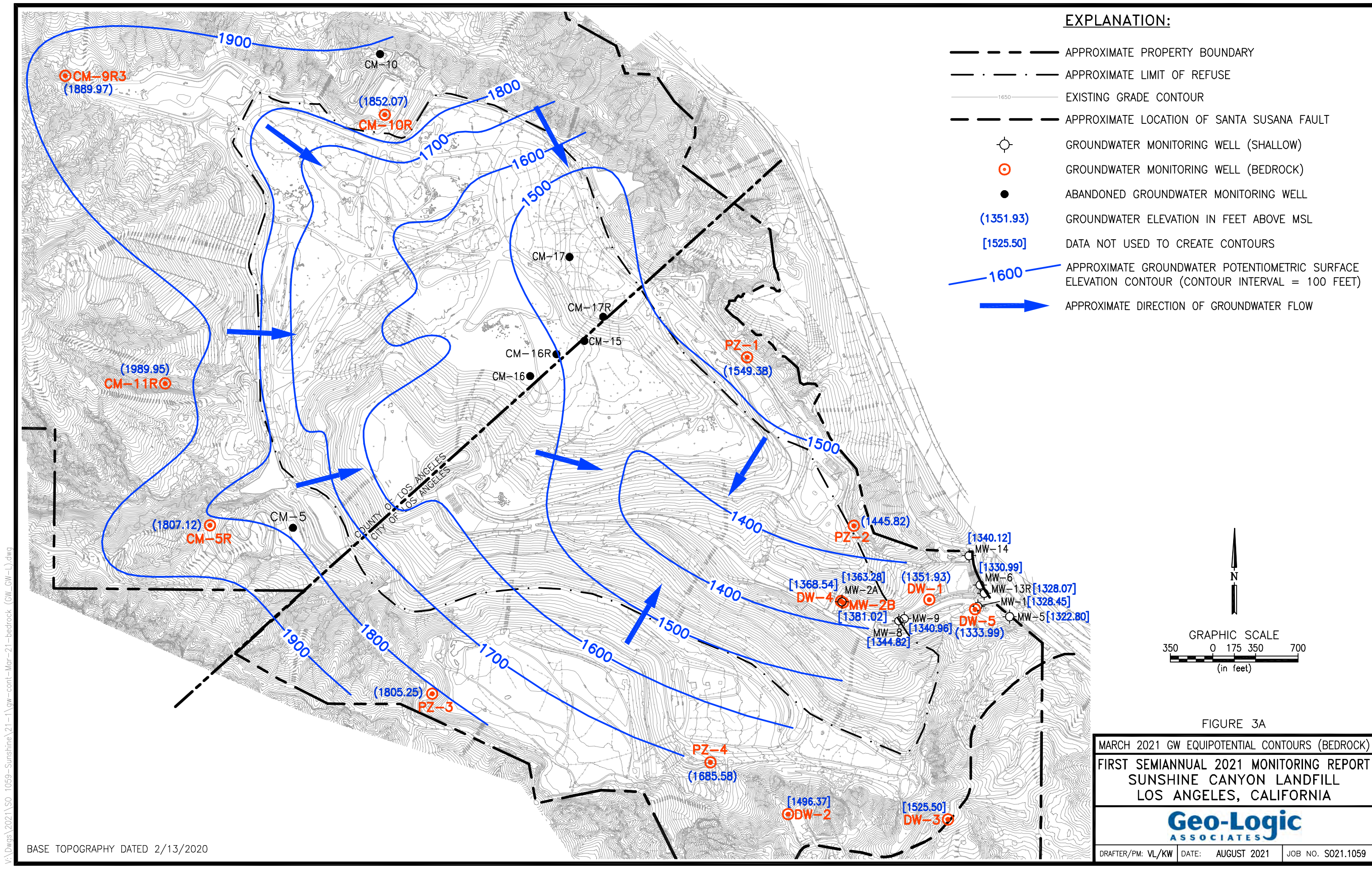
FIGURE 2

SITE MONITORING POINTS LOCATION MAP
 FIRST SEMIANNUAL 2021 MONITORING REPORT
 SUNSHINE CANYON LANDFILL
 LOS ANGELES, CALIFORNIA



DRAFTER/PM: VL/KW DATE: AUGUST 2021 JOB NO. S021.1059





EXPLANATION:

- APPROXIMATE PROPERTY BOUNDARY
- . - . - APPROXIMATE LIMIT OF REFUSE
- 1650 — EXISTING GRADE CONTOUR
- - - - - APPROXIMATE LOCATION OF SANTA SUSANA FAULT
- ⊙ GROUNDWATER MONITORING WELL (SHALLOW)
- ⊙ GROUNDWATER MONITORING WELL (BEDROCK)
- ABANDONED GROUNDWATER MONITORING WELL
- (1351.93) GROUNDWATER ELEVATION IN FEET ABOVE MSL
- [1525.50] DATA NOT USED TO CREATE CONTOURS
- 1600 — APPROXIMATE GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION CONTOUR (CONTOUR INTERVAL = 100 FEET)
- ➔ APPROXIMATE DIRECTION OF GROUNDWATER FLOW

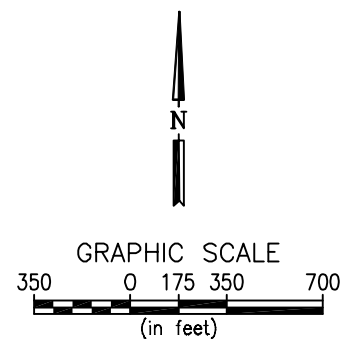


FIGURE 3A

MARCH 2021 GW EQUIPOTENTIAL CONTOURS (BEDROCK)
 FIRST SEMIANNUAL 2021 MONITORING REPORT
 SUNSHINE CANYON LANDFILL
 LOS ANGELES, CALIFORNIA

Geo-Logic
 ASSOCIATES

DRAFTER/PM: VL/KW DATE: AUGUST 2021 JOB NO. S021.1059

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BASE TOPOGRAPHY DATED 2/13/2020

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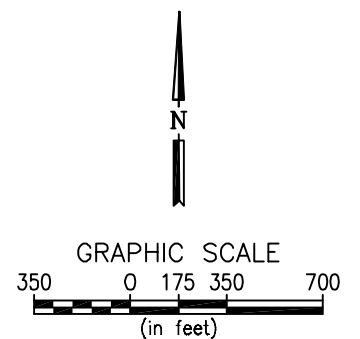
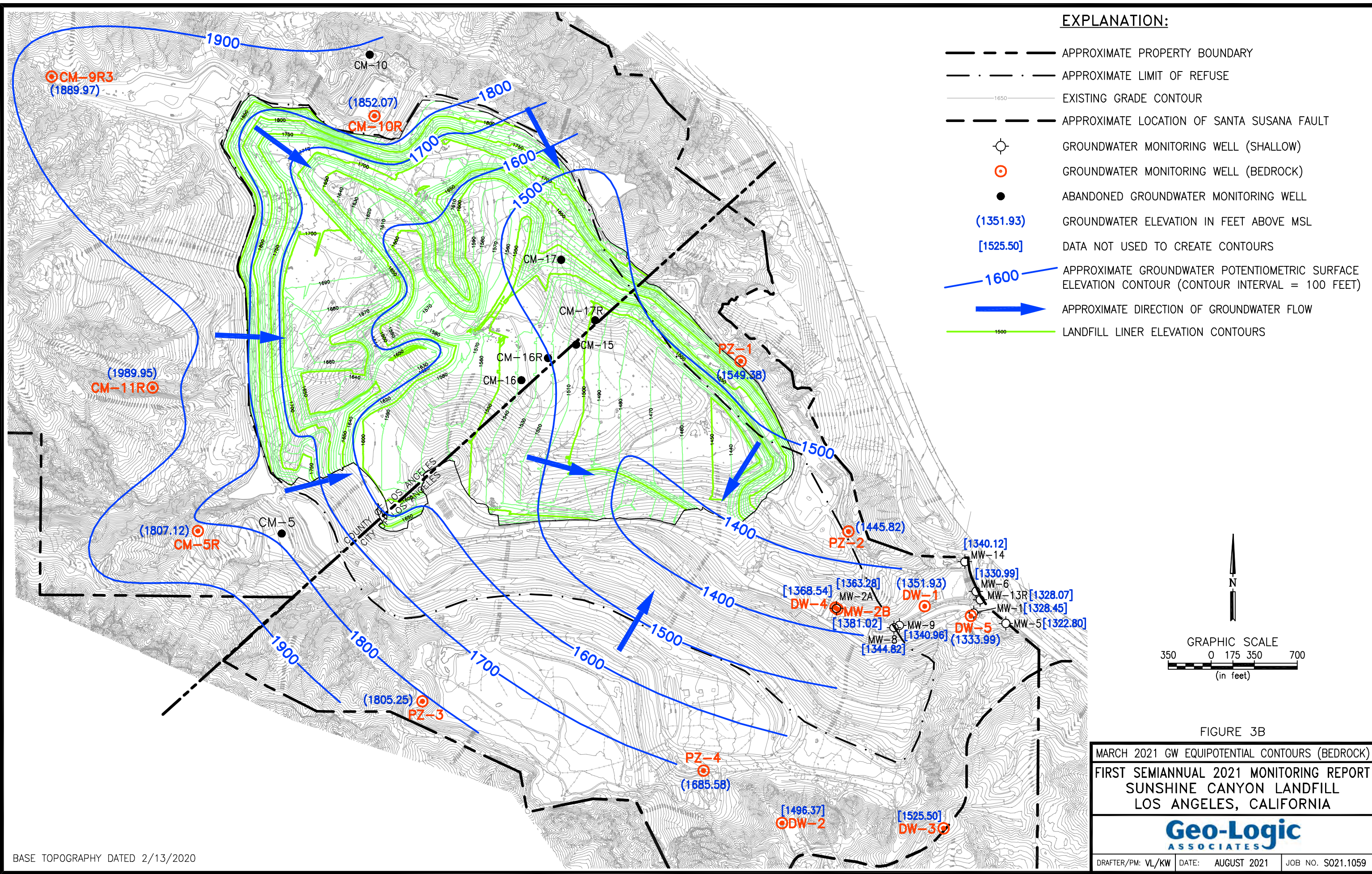


FIGURE 3B

MARCH 2021 GW EQUIPOTENTIAL CONTOURS (BEDROCK)
 FIRST SEMIANNUAL 2021 MONITORING REPORT
 SUNSHINE CANYON LANDFILL
 LOS ANGELES, CALIFORNIA



DRAFTER/PM: VL/KW DATE: AUGUST 2021 JOB NO. S021.1059

BASE TOPOGRAPHY DATED 2/13/2020

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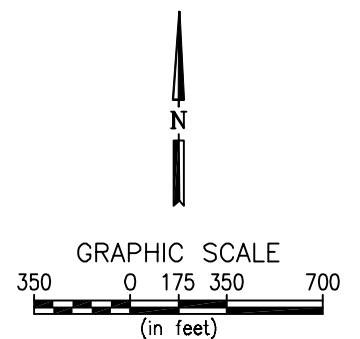
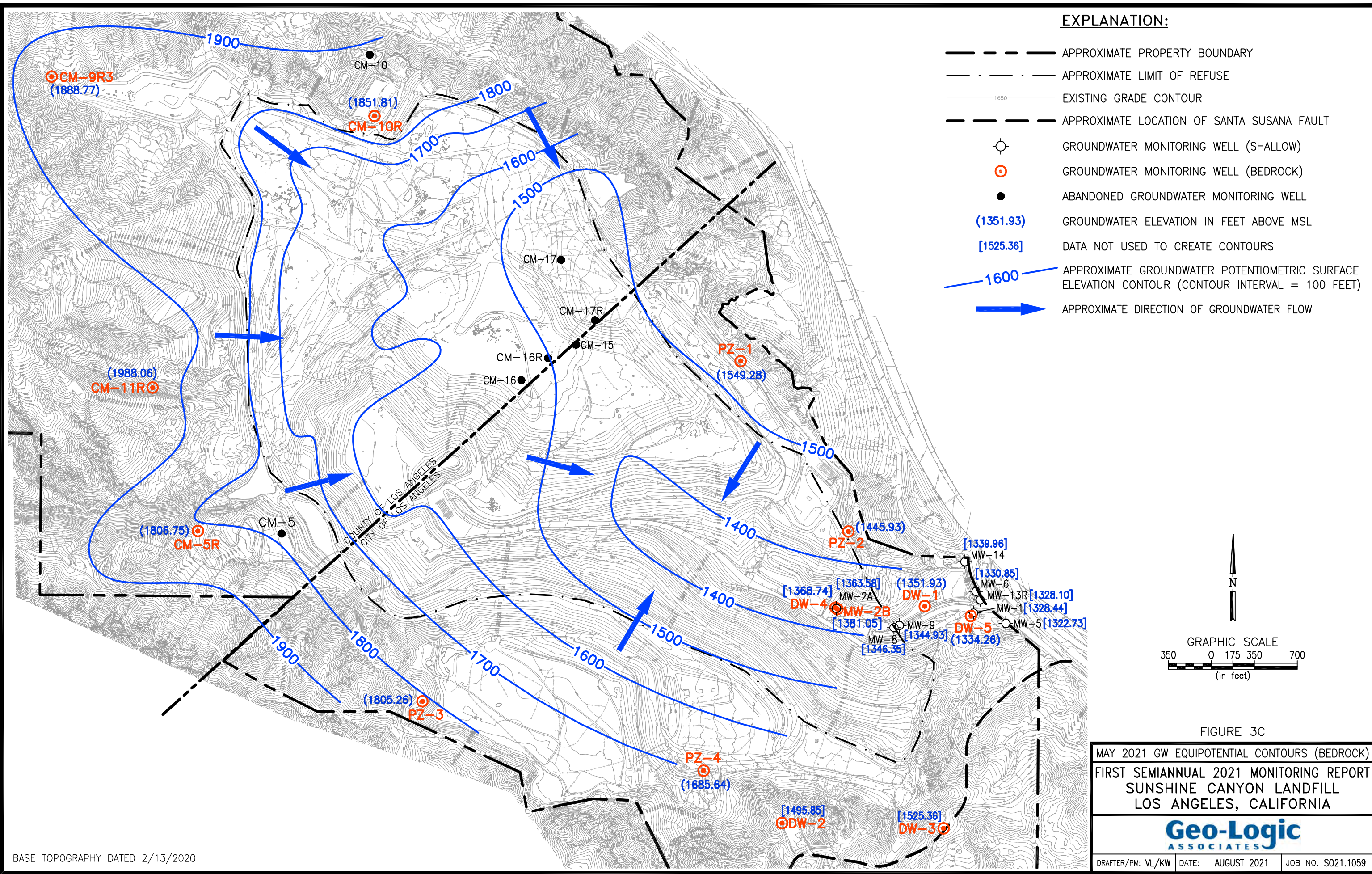


FIGURE 3C

MAY 2021 GW EQUIPOTENTIAL CONTOURS (BEDROCK)
 FIRST SEMIANNUAL 2021 MONITORING REPORT
 SUNSHINE CANYON LANDFILL
 LOS ANGELES, CALIFORNIA



DRAFTER/PM: VL/KW DATE: AUGUST 2021 JOB NO. S021.1059

BASE TOPOGRAPHY DATED 2/13/2020

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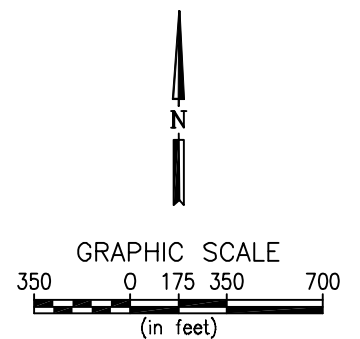
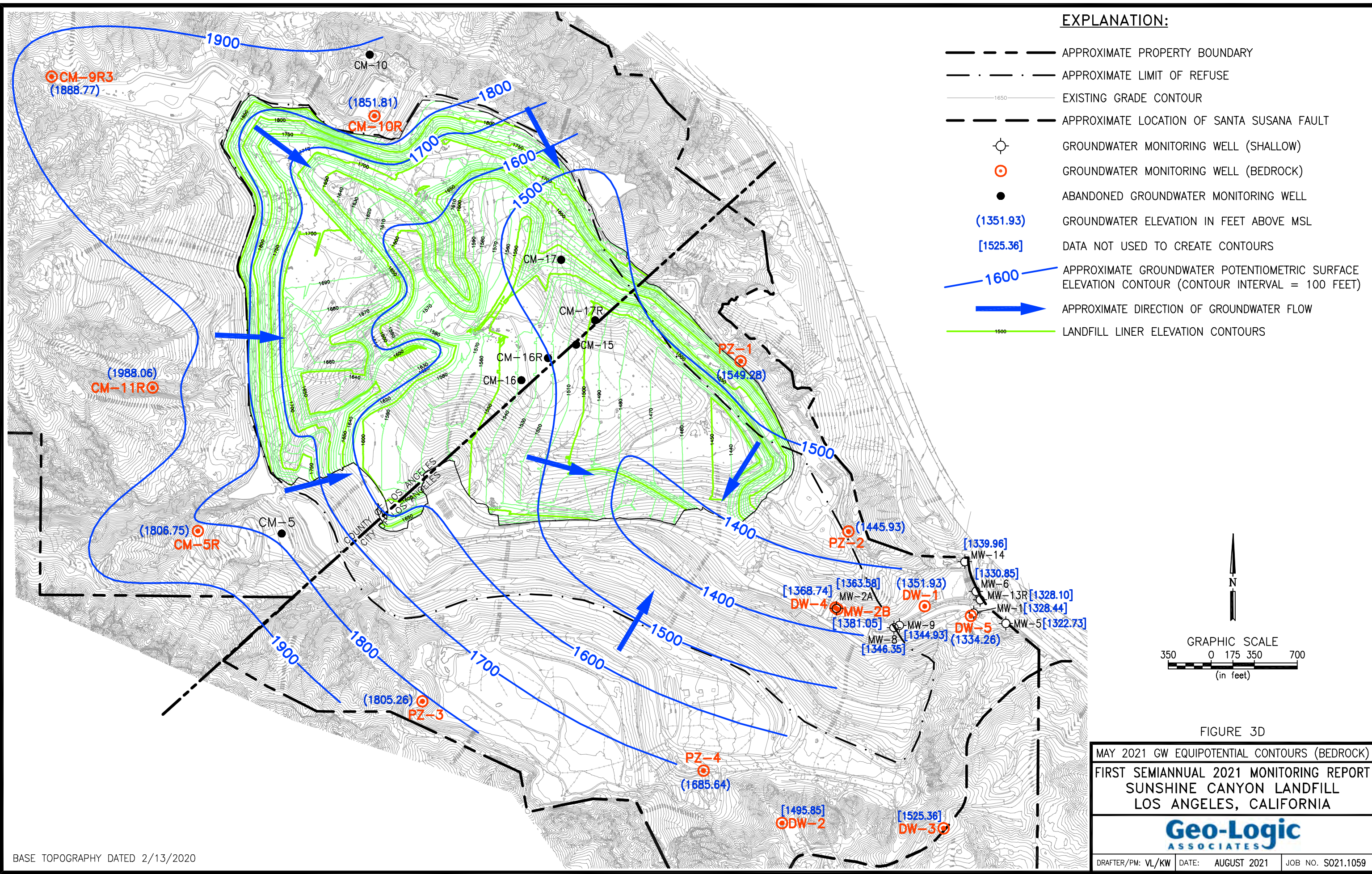


FIGURE 3D

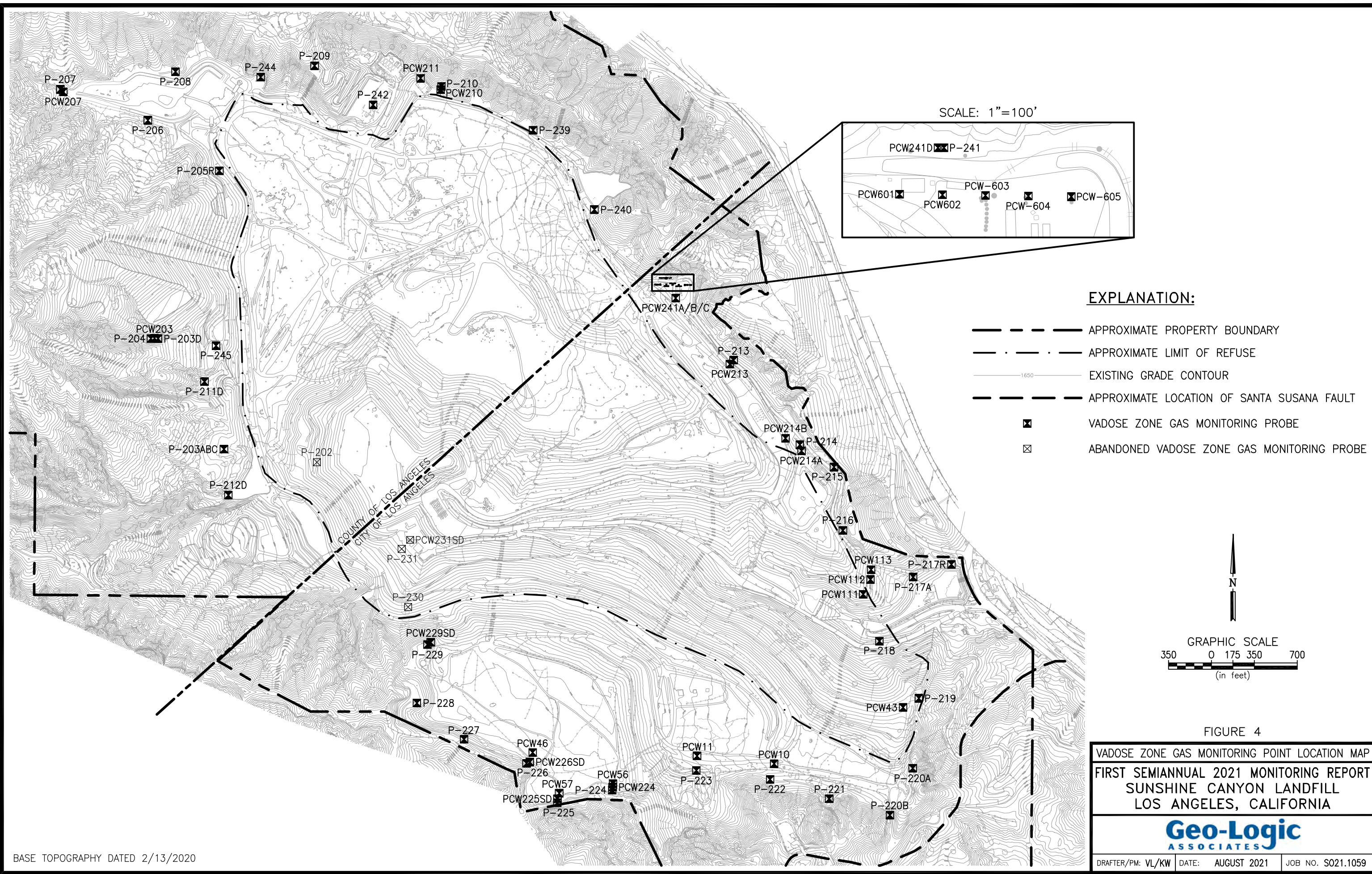
MAY 2021 GW EQUIPOTENTIAL CONTOURS (BEDROCK)
FIRST SEMIANNUAL 2021 MONITORING REPORT
SUNSHINE CANYON LANDFILL
LOS ANGELES, CALIFORNIA

Geo-Logic
ASSOCIATES

DRAFTER/PM: VL/KW DATE: AUGUST 2021 JOB NO. S021.1059

BASE TOPOGRAPHY DATED 2/13/2020

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SCALE: 1"=100'

EXPLANATION:

- APPROXIMATE PROPERTY BOUNDARY
- . - . - APPROXIMATE LIMIT OF REFUSE
- 1650 --- EXISTING GRADE CONTOUR
- APPROXIMATE LOCATION OF SANTA SUSANA FAULT
- ☒ VADOSE ZONE GAS MONITORING PROBE
- ☒ ABANDONED VADOSE ZONE GAS MONITORING PROBE

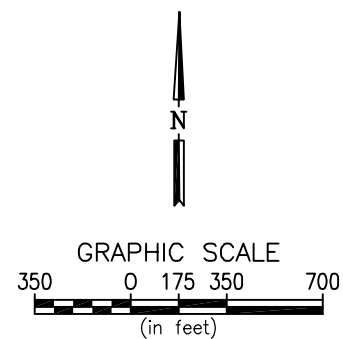


FIGURE 4

VADOSE ZONE GAS MONITORING POINT LOCATION MAP
 FIRST SEMIANNUAL 2021 MONITORING REPORT
 SUNSHINE CANYON LANDFILL
 LOS ANGELES, CALIFORNIA



DRAFTER/PM: VL/KW DATE: AUGUST 2021 JOB NO. S021.1059

BASE TOPOGRAPHY DATED 2/13/2020

TABLES

TABLE 1
REGULATORY COMPLIANCE CHECKLIST - MONITORING AND REPORTING PROGRAM CI-2043
SUNSHINE CANYON LANDFILL

MRP SECTION	REPORTING REQUIREMENT	REPORT SECTION
I.A.1	Transmittal Letter	Republic Transmittal Letter
	Discussion of Violations	Section 12; Republic Transmittal Letter
	Planned Corrective Actions (as applicable)	Section 12; Republic Transmittal Letter
	Signature of Owner/Operator Principal	Republic Transmittal Letter
	Statement of validity, accuracy, and completeness	Republic Transmittal Letter
I.A.2	Summary of Non-Compliance	Section 12; Republic Transmittal Letter
I.A.3	Site Conditions	Section 2
I.A.4	Narrative Description	
	Monitoring Parameters	Section 3.2, Table 2
	Groundwater Monitoring	Section 3
	Water Quality Protection Standards	Section 3.5, Tables 7A, 7B
	Statistical and Non-Statistical Data Analysis	Section 3.5, Tables 7A, 7B
	Groundwater Flow Monitoring	Section 3.4
	Leachate Monitoring	Section 7.0
	Vadose Zone Liquid Monitoring	Section 4.0
	Vadose Zone Gas Monitoring	Section 5.0
	Surface Water Monitoring	Section 6.0
On-Site Water Use Monitoring	Section 8.0	
I.A.5	Laboratory Results	
	Groundwater	Appendix B, Tables 6A and 6B
	Subdrain and Lysimeter Liquid	Appendix B, Tables 8A and 8B
	NPDES Monitoring	Table 10
	Stream Diversion	Section 6.2
	Spring Water	Section 6.3, Appendix D
	Leachate	Appendix B; Table 11
	Trench Liquid	Appendix B
	Non-Target Volatile Organic Compounds	Appendix B
	QA/QC Sample Results	Section 3.3, Tables 3A, 3B, 4A, and 4B, Appendix B
I.A.6	Summary and Certification of Standard Observation in accordance with NPDES requirements	Appendix D
I.A.7	Summary of total volumes of liquids, on a monthly basis, of landfill leachate, condensate, and subdrain water.	Table 12
	Method of managing landfill-generated liquids.	Section 8.0
I.A.8.a	Table of estimated average monthly quantities of deposited waste (tons and cubic yards)	Section 10.0; Appendix E
I.A.8.b	An estimate of the remaining capacity (in tons and cubic yards) and the remaining life of the site in years and months.	Section 10.0
I.A.8.c	Certification that all wastes comply with RWQCB requirements and were placed within the permitted boundary.	Republic Transmittal Letter
I.A.8.d	Description and estimated flow rate of seeps and springs.	Appendix D
I.A.8.e	Estimated amount of water used for landscape irrigation, dust suppression, and operations.	Table 12
I.A.8.f	Date, source, quantity, description, and management of unacceptable wastes received at the facility.	Section 10.0
I.A.9	Map showing waste disposal locations	Appendix E
	Map showing monitoring locations	Figure 2; Figure 4
	Map showing groundwater contours	Figures 3A through 3D

**TABLE 2
ANALYTICAL PARAMETERS AND METHODS
SUNSHINE CANYON LANDFILL**

Parameter	Typical USEPA Method	Frequency
<u>Indicator Parameters</u>		
Liquid Level	Field	Quarterly
Alkalinity, total	310.1	Quarterly
Ammonia as Nitrogen	350.2	Quarterly
Chemical oxygen demand (COD)	410.2	Quarterly
Chloride	300.0	Quarterly
Potassium, total	6010B	Quarterly
Total Organic Carbon (TOC)	415.1	Quarterly
Total Dissolved Solids (TDS)	160.1	Quarterly
Volatile Organic Compounds (Appendix I, MTBE, TBA, dichlorodifluoromethane, tetrahydrofuran, and carbon disulfide)	8260B	Quarterly
1,4-Dioxane	8270 or 8260SIM	Quarterly
<u>Supplemental Parameters</u>		
pH	Field	Semiannual
Electrical Conductivity (EC)	Field	Semiannual
Temperature	Field	Semiannual
Turbidity	Field	Semiannual
Bicarbonate as CaCO ₃	310.1	Semiannual
Boron, total	6010B	Semiannual
Bromide	300.0	Semiannual
Calcium, total	6010b	Semiannual
Carbon dioxide	SM4500-CO ₂	Semiannual
Fluoride	340.2	Semiannual
Iron, total	6010B	Semiannual
Magnesium, total	6010B	Semiannual
Manganese, total	6010B	Semiannual
Nitrate-N	300.0	Semiannual
Sodium, total	6010B	Semiannual
Sulfate	300.0	Semiannual
Sulfide	376.2	Semiannual
<u>Constituents of Concern (COCs)</u>		
		(Last conducted June 2016)
Antimony (dissolved)	6010B	Every Five Years
Arsenic (dissolved)	200.8	Every Five Years
Barium (dissolved)	6010B	Every Five Years
Beryllium (dissolved)	6010B	Every Five Years
Chromium (dissolved)	6010B	Every Five Years
Cobalt (dissolved)	6010B	Every Five Years
Copper (dissolved)	6010B	Every Five Years
Lead (dissolved)	6010B	Every Five Years
Mercury (dissolved)	7470	Every Five Years
Nickel (dissolved)	6010B	Every Five Years
Selenium (dissolved)	6010B	Every Five Years
Silver (dissolved)	6010B	Every Five Years
Thallium (dissolved)	6010B	Every Five Years
Tin (dissolved)	6010B	Every Five Years
Vanadium (dissolved)	6010B	Every Five Years
Zinc (dissolved)	6010B	Every Five Years
Semivolatile Organic Compounds	8270	Every Five Years
Any other pollutants that are detected in leachate	Various	Every Five Years (Next COC Sampling: Dec 2021)

**TABLE 3A
SUMMARY OF BLANK SAMPLE RESULTS - FIRST QUARTER 2021
SUNSHINE CANYON LANDFILL**

Primary Sampling Date	Blank Sampling Date	Blank Sample Collection Type	Reported Analytes
3/4/21	3/4/21	QCAB	Tetrahydrofuran (1.5j µg/L), N(1,1-Difluoro-2,2-bis-trifluor-methylethyl)-aziridine (740j µg/L, TIC)
	3/4/21	QCTB	1,1 -dichloro-Germacyclohexane (1200j µg/L, TIC)
	3/4/21	Method Blank	None Detected
3/8/21	3/8/21	QCAB	Cyclobutanol (17j µg/L, TIC)
	3/8/21	QCTB	None Detected
	3/8/21	Method Blank	None Detected
3/9/21	3/9/21	QCAB	Tetrahydrofuran (1.1j µg/L)
	3/9/21	QCTB	None Detected
	3/9/21	Method Blank	None Detected
3/10/21	3/10/21	QCAB	None Detected
	3/10/21	QCTB	None Detected
	3/10/21	Method Blank	None Detected

**TABLE 3B
SUMMARY OF BLANK SAMPLE RESULTS - SECOND QUARTER 2021
SUNSHINE CANYON LANDFILL**

Primary Sampling Date	Blank Sampling Date	Blank Sample Collection Type	Reported Analytes
5/17/21	5/17/21	QCAB	Acetone (6.1j µg/L); Tetrahydrofuran (1.4j µg/L)
	5/17/21	QCTB	Amphetamine-3-methyl (550j µg/L, TIC); Bactobolin (110j µg/L, TIC); Benzeneethanamine, 4-fluoro-.beta.,3-dihydroxy-N-methyl (250j µg/L, TIC); Benzenemethanol, 3-hydroxy-.alpha.-[(methylamino)methyl]- (180j µg/L, TIC); R-(-)-Cyclohexylethylamine (140j µg/L, TIC)
	5/17/21	Method Blank	None Detected
5/18/21	5/18/21	QCAB	Acetone (4.9j µg/L)
	5/18/21	QCTB	3-Ethylenimino-acrylonitrile (180j µg/L, TIC)
	5/18/21	Method Blank	Total Alkalinity as CaCO3 (10 mg/L); Bicarbonate Alkalinity as CaCO3 (10 mg/L)
5/19/21	5/19/21	QCAB	Acetone (5.2j µg/L); Sulfur dioxide (310j µg/L, TIC)
	5/19/21	QCTB	Sulfur dioxide (500j µg/L, TIC)
	5/19/21	Method Blank	None Detected
5/20/21	5/20/21	QCAB	2-Pyridinecarboxylic acid, 3-nitro-, methyl ester (110j µg/L, TIC)
	5/20/21	QCTB	None Detected
	5/20/21	Method Blank	Calcium, Recoverable (0.0858j mg/L); Iron, Total Recoverable (0.756 mg/L)

j: Indicates a trace concentration (between the Method Detection Limit and Practical Quantitation Limit.

TABLE 4A
SUMMARY OF DUPLICATE SAMPLE RESULTS - FIRST QUARTER 2021
SUNSHINE CANYON LANDFILL

ANALYTE	MW-14 3/8/21	DUPLICATE 3/8/21	RELATIVE PERCENT DIFFERENCE
GENERAL CHEMISTRY CONSTITUENTS (mg/L):			
Alkalinity, total	310	310	0
Ammonia (as N)	0.10	0.10	NC
Chemical Oxygen Demand	10	10	NC
Chloride	23	23	0
Total Dissolved Solids	3300	3300	0
Total Organic Compound	4.5	4.6	2
METALS (mg/L):			
Potassium	8.7	8.9	2
VOLATILE & SEMI-VOLATILE ORGANIC COMPOUNDS (µg/L):			
1-Chloro-1-fluoro-Ethane (TIC)	210	190	NC
Sulfur Oxide (TIC)	170	NA	NC

TABLE 4B
SUMMARY OF DUPLICATE SAMPLE RESULTS -SECOND QUARTER 2021
SUNSHINE CANYON LANDFILL

ANALYTE	DW-4 5/18/2021	DUPLICATE 5/18/2021	RELATIVE PERCENT DIFFERENCE
GENERAL CHEMISTRY CONSTITUENTS (mg/L):			
Alkalinity, total	340	340	0
Ammonia (as N)	4.4	4.4	0
Bicarbonate alkalinity	340	340	0
Bromide	0.48	0.48	NC
Carbon Dioxide	32	32	0
Chemical Oxygen Demand	10	10	0
Chloride	13	13	0
Fluoride	0.40	0.40	NC
Nitrate (as N)	0.11	0.11	NC
Sulfate	1800	1800	0
Sulfide, total	0.027	0.027	NC
Total Dissolved Solids	2900	2800	4
Total Organic Carbon	1.8	1.7	6
METALS (mg/L):			
Boron	0.58	0.59	2
Calcium	170	170	0
Iron	1.4	1.5	7
Magnesium	120	120	0
Manganese	0.11	0.11	0
Potassium	3.9	4.0	3
Sodium	450	470	4
VOLATILE AND SEMIVOLATILE ORGANIC COMPOUNDS (µg/L):			
1,4-Dioxane	0.34	0.34	NC

Notes:

Right-justified value, non-shaded box indicates a quantified concentration (above the Practical Quantitation Limit).

Right-justified, bolded value with a shaded box indicates an estimated-trace concentration.

Left-justified value, shaded box indicates not detected (method detection limit shown).

NC = Not calculated (relative percent difference only calculated for quantifiable concentrations).

Only detected constituents shown.

* - Detected in method blank at similar concentration.

**TABLE 6A
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -FIRST QUARTER 2021
SUNSHINE CANYON LANDFILL**

Analyte	Units	BACKGROUND WELLS			SHALLOW MONITORING WELLS							DEEP MONITORING WELLS							Maximum Contaminant Level	
		CM-9R3	CM-11R	CM-10R	MW-1	MW-2A**	MW-5	MW-6	MW-9**	MW-13R	MW-14	DW-1	DW-2	DW-3	DW-4**	DW-5	MW-2B**	PZ-2		PZ-4
		03/09/21	03/04/21	03/04/21	03/10/21	03/08/21	03/09/21	03/08/21	03/09/21	03/09/21	03/08/21	03/08/21	03/09/21	03/10/21	03/08/21	03/10/21	03/08/21	03/09/21		03/09/21
Inorganic Monitoring Parameters:																				
Alkalinity, total	mg/L	230	42	430	460	370	480	460	650	710	310	530	360	150	330	890	320	360	330	NV
Ammonia-Nitrogen	mg/L	6.8	2.6	11	6.2	3.5	4.6	0.98	3.9	6.9	0.10	2.3	3.6	0.64	4.7	0.34	3.8	3.6	2.7	NV
Chemical Oxygen Demand	mg/L	16j	10	10	50	10	47	10	54	200	10	10	10	10	10	10	10	10	10	NV
Chloride	mg/L	14	9.9	8.7	160	31	280	35	210	98	23	14	11	14	13	19	13	13	8.9	500(2)
Total Dissolved Solids	mg/L	4300	3200	2500	2700	2800	3000	3400	3800	1300	3300	3300	2000	1800	3000	1100	2700	4000	1200	1000(2)
Total Organic Carbon	mg/L	8.1	5.2	4.0	22	4.0	17	5.2	26	21	4.5	3.6	1.9	0.57	1.9	8.7	1.8	2.7	1.5	NV
Metals:																				
Potassium, total	mg/L	13	8.5	10	36	6.2	22	5.6	17	22	8.7	3.0	4.1	8.4	4.7	0.89	4.7	2.5	4.1	NV
Volatile and Semivolatile Organic Compounds:																				
cis-1,2-Dichloroethene	µg/L	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.34j	24	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	6(1)-70(3)
1,4-Dioxane	µg/L	0.34	0.34	0.34	13	1.8	4.7	0.34	50	7.8	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	NV
Methyl tert-butyl ether	µg/L	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.44j	16	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	13(1)/5(2)
Tetrahydrofuran	µg/L	1.1	1.1	1.1	1.1	1.1	1.1	1.1	6.3	85	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	NV

Notes:

(1) State of California Primary Drinking Water Standard

(2) State of California Secondary Drinking Water Standard

(3) Federal Maximum Contaminant Level

(j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.

* - Analyte also detected in a blank sample at a similar concentration.

** - Corrective Action Evaluation Monitoring Well.

0.25 Analyte was not detected. Value listed is the Method Detection Limit.

2500 Analyte concentration exceeds ARAR value.

**TABLE 6B
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -SECOND QUARTER 2021
SUNSHINE CANYON LANDFILL**

Analyte	Units	BACKGROUND WELLS			SHALLOW MONITORING WELLS							DEEP MONITORING WELLS							Maximum Contaminant Level	
		CM-9R3	CM-11R	CM-10R	MW-1	MW-2A**	MW-5	MW-6	MW-9**	MW-13R	MW-14	DW-1	DW-2	DW-3	DW-4**	DW-5	MW-2B**	PZ-2		PZ-4
		05/19/21	05/19/21	05/19/21	05/19/21	05/18/21	05/20/21	05/17/21	05/17/21	05/17/21	05/17/21	05/17/21	05/18/21	05/18/21	05/18/21	05/18/21	05/19/21	05/18/21		05/17/21
Inorganic Monitoring Parameters:																				
Alkalinity, total	mg/L	180	34	490	490	360	450	460	790	740	310	540	340	140	340	910	330	340	330	NV
Alkalinity, bicarbonate	mg/L	180	34	490	490	360	450	460	790	740	310	350	340	140	340	870	330	320	330	NV
Ammonia-Nitrogen	mg/L	4.2	1.1	10	6.4	3.1	4.0	0.93	3.7	5.9	0.10	1.8	3.3	0.69	4.4	0.28	3.4	3.1	2.3	NV
Bromide	mg/L	0.26j	0.24	0.24	2.3	0.48	3.2	0.93j	4.0	0.96	0.58	1.2	0.35j	0.24	0.48	0.24	0.48	2.4	0.24	NV
Carbon Dioxide, free	mg/L	86	8.8	100	170	120	79	55	180	5.3	35	2.0	30	14	32	11	26	2.0	46	NV
Chemical Oxygen Demand	mg/L	10	10	20	73	20	36	10	96	140	10	10	27	14j	10	10	10	10	16j	NV
Chloride	mg/L	15	10	10	180	21	270	36	280	86	23	14	12	15	13	19	14	12	9.3	500(2)
Fluoride	mg/L	1.8	0.66	1.2	2.2	0.97j	2.1	1.1	0.41j	0.39j	1.0	2.3j	0.33j	0.31j	0.40	3.1	0.76j	2.0	1.0	2(1)-4(3)
Nitrate-Nitrogen	mg/L	0.35	1.2	0.055	0.055	0.11	0.055	0.11	0.11	0.11	0.36	0.28	0.055	0.11	0.11	0.055	0.11	0.55	0.055	10(1,3)
Sulfate	mg/L	2600	2100	1400	1700	1600	1500	2000	1700	230	1900	1500	1100	1200	1800	0.25	1600	2600	550	500(2)
Sulfide, total	mg/L	0.027	0.027	3.4	0.027	0.027	0.027	9.9	0.027	95	0.027	0.027	0.027	0.027	0.027	0.041j	0.027	0.027	0.027	NV
Total Dissolved Solids	mg/L	4100	3300	2400	3200	2600	3100	3400	4100	1300	3100	2600	1900	1900	2900	1100	2500	3900	1200	1000(2)
Total Organic Carbon	mg/L	8.5	6.5	7.1	29	3.0	18	6.3	32	20	4.5	3.8	1.5	0.41	1.8	7.0	1.8	2.3	1.1	NV
Metals:																				
Boron	mg/L	1.8	1.2	0.83	0.80	0.57	1.0	0.77	1.1	0.85	0.33	2.0	0.55	0.051	0.58	2.5	0.57	1.4	0.15	NV
Calcium	mg/L	360	230	230	400	210	370	380	470	110	410	64	98	290	170	5.2	180	22	130	NV
Iron	mg/L	4.2	0.058j	0.089j	53	6.4	32	0.47	33	0.22	0.050	43	1.5	0.53	1.4	0.10	2.1	0.050	1.2	0.3(2)
Magnesium	mg/L	220	140	190	190	120	160	210	260	110	170	8.1	69	100	120	0.87	110	20	77	NV
Manganese	mg/L	2.4	2.8	0.32	2.4	0.73	4.0	0.98	6.1	0.16	3.9	0.96	0.14	0.061	0.11	0.094	0.13	0.043	0.13	0.05(2)
Potassium, total	mg/L	12	9.3	10	38	5.2	22	5.6	18	24	8.1	7.3	3.8	8.3	3.9	0.67	4.1	1.3	4.1	NV
Sodium	mg/L	420	460	170	210	380	300	340	360	180	220	860	390	65	450	420	420	1300	84	NV
Volatile and Semivolatile Organic Compounds:																				
t-Butanol	µg/L	4.0	4.0	4.0	9.6	4.0	4.0	4.0	40	4.0	4.0	4.0	4.0	4.0	4.0	4.1j	4.0	4.0	4.0	NV
1,4-Dichlorobenzene	µg/L	0.22	0.22	0.22	0.22	0.22	0.22	0.25	0.41j	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	NV
cis-1,2-Dichloroethene	µg/L	0.30	0.30	0.30	0.30	0.30	0.30	0.30	1.4	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	6(1)-70(3)
1,4-Dioxane	µg/L	0.34	0.34	0.34	17	1.5	4.2	0.34	54	7.3	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	NV
Methyl tert-butyl ether	µg/L	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.43j	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	13(1)/5(2)
Tetrahydrofuran	µg/L	1.1	1.1	1.1	1.7j	1.1	1.1	1.1	11	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	NV

Notes:

(1) State of California Primary Drinking Water Standard

(2) State of California Secondary Drinking Water Standard

(3) Federal Maximum Contaminant Level

(j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.

* - Analyte also detected in a blank sample at a similar concentration.

** - Corrective Action Evaluation Monitoring Well.

0.25 Analyte was not detected. Value listed is the Method Detection Limit.

2500 Analyte concentration exceeds ARAR value.

TABLE 7A
COMPARISON OF INTRAWELL WATER QUALITY PROTECTION STANDARDS TO ANALYTICAL RESULTS - FIRST QUARTER 2021
SUNSHINE CANYON LANDFILL

Analyte	Units	WELL																					
		MW-1		MW-5		MW-6		MW-13R		MW-14		DW-1		DW-2		DW-3		DW-5		PZ-2		PZ-4	
		3/10/2021		3/9/2021		3/8/2021		3/9/2021		3/8/2021		3/8/2021		3/9/2021		3/10/2021		3/10/2021		3/9/2021		3/9/2021	
		Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS
Inorganic Monitoring Parameters:																							
Alkalinity	mg/L	460	844.76	480	727.34	460	571.59	710	972.24	310	587.83	530	658.76	360	410.47	150	162.81	890	1009.98	360	411.93	330	341.13
Ammonia-Nitrogen	mg/L	6.2	10.634	4.6	5.714	0.98	1.337	6.9	7.732	0.10	0.5703	2.3	2.4	3.6	4.308	0.64	0.7564	0.34	0.3918	3.6	3.598	2.7	2.976
Chemical Oxygen Demand	mg/L	50	202.056	47	135.7	10	75.338	200	407.58	10	54.674	10	49.801	10	52.743	10	15.206	10	76.47	10	26.386	10	24.85
Chloride	mg/L	160	408.469	280	469.603	35	70.829	98	213.802	23	88.987	14	17.737	11	15.462	14	17.534	19	101.838	13	16.398	8.9	11.706
Potassium, total	mg/L	36	54.763	22	34.393	5.6	10.679	22	27.224	8.7	12.508	3.0	3.838	4.1	6.183	8.4	12.357	0.89	5.262	2.5	4.693	4.1	5.643
Total Dissolved Solids	mg/L	2700	4495	3000	4614.2	3400	4486.5	1300	3450.9	3300	5128.5	3300	3600.2	2000	2178.3	1800	2313.1	1100	1417.3	4000	4403.2	1200	1529.5
Total Organic Carbon	mg/L	22	75.928	17	50.696	5.2	15.408	21	54.233	4.5	13.006	3.6	9.947	1.9	3.499	0.57	2.115	8.7	11.745	2.7	2.887	1.5	2.085
Volatile Organic Compounds: (The WQPS is the PQL for any single VOC detected or two or more detections between the MDL and PQL.)																							
1,4-Dioxane	µg/L	13	0.50	4.7	0.50	0.34	0.50	7.8	0.50	0.34	0.50	0.34	0.50	0.34	0.50	0.34	0.50	0.34	0.50	0.34	0.50	0.34	0.50

Notes:

(j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.

ND: Analyte was not detected. Detection limit is unknown.

0.25 Analyte was not detected. Value listed is the Method Detection Limit.

2500 Analyte concentration exceeds intrawell WQPS.

TABLE 7B
COMPARISON OF INTRAWELL WATER QUALITY PROTECTION STANDARDS TO ANALYTICAL RESULTS - SECOND QUARTER 2021
SUNSHINE CANYON LANDFILL

Analyte	Units	WELL																					
		MW-1		MW-5		MW-6		MW-13R		MW-14		DW-1		DW-2		DW-3		DW-5		PZ-2		PZ-4	
		5/19/2021		5/20/2021		5/17/2021		5/17/2021		5/17/2021		5/17/2021		5/18/2021		5/18/2021		5/19/2021		5/17/2021		5/18/2021	
		Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS	Result	WQPS
Inorganic Monitoring Parameters:																							
Alkalinity	mg/L	490	844.76	450	727.34	460	571.59	740	972.24	310	587.83	540	658.76	340	410.47	140	162.81	910	1009.98	340	411.93	330	341.13
Ammonia-Nitrogen	mg/L	6.4	10.634	4.0	5.714	0.93	1.337	5.9	7.732	0.10	0.5703	1.8	2.4	3.3	4.308	0.69	0.7564	0.28	0.3918	3.1	3.598	2.3	2.976
Chemical Oxygen Demand	mg/L	73	202.056	36	135.7	10	75.338	140	407.58	10	54.674	10	49.801	27	52.743	14j	15.206	10	76.47	10	26.386	16j	24.85
Chloride	mg/L	180	408.469	270	469.603	36	70.829	86	213.802	23	88.987	14	17.737	12	15.462	15	17.534	19	101.838	12	16.398	9.3	11.706
Potassium, total	mg/L	38	54.763	22	34.393	5.6	10.679	24	27.224	8.1	12.508	7.3	3.838	3.8	6.183	8.3	12.357	0.67	5.262	1.3	4.693	4.1	5.643
Total Dissolved Solids	mg/L	3200	4495	3100	4614.2	3400	4486.5	1300	3450.9	3100	5128.5	2600	3600.2	1900	2178.3	1900	2313.1	1100	1417.3	3900	4403.2	1200	1529.5
Total Organic Carbon	mg/L	29	75.928	18	50.696	6.3	15.408	20	54.233	4.5	13.006	3.8	9.947	1.5	3.499	0.41	2.115	7.0	11.745	2.3	2.887	1.1	2.085
Volatile Organic Compounds: (The WQPS is the PQL for any single VOC detected or two or more detections between the MDL and PQL.)																							
t-Butanol	µg/L	9.6	5.0	4.0	5.0	4.0	5.0	320	400	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.1	5.0	4.0	5.0	4.0	5.0
1,4-Dioxane	µg/L	17	0.50	4.2	0.50	0.34	0.50	7.3	0.50	0.34	0.50	0.34	0.50	0.34	0.50	0.34	0.50	0.34	0.50	0.34	0.50	0.34	0.50
Tetrahydrofuran	µg/L	1.7j	8.0	1.1	2.0	1.1	2.0	1.1	2.0	1.1	2.0	1.1	2.0	1.1	2.0	1.1	2.0	1.1	2.0	1.1	2.0	1.1	2.0

Notes:

(j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.

ND: Analyte was not detected. Detection limit is unknown.

0.25 Analyte was not detected. Value listed is the Method Detection Limit.

2500 Analyte concentration exceeds intrawell WQPS.

TABLE 8A
SUMMARY OF ANALYTICAL RESULTS FOR VADOSE ZONE LIQUID MONITORING POINTS
FIRST QUARTER 2021
SUNSHINE CANYON LANDFILL

Analyte	Units	SUBDRAIN MONITORING POINTS		LYSIMETERS		Maximum Contaminant Level
		Subdrain N	Combined Subdrains	LY-6	LY-7	
		3/4/2021	3/4/2021	3/4/2021	3/4/2021	
Field Parameters:						
Electrical Conductivity	mS/cm	3.20	2.88	Dry	4.64	NV
Oxidation Reduction Potential	mV	-78	-51	Dry	-54	NV
Oxygen, dissolved	mg/L	0.68	1.78	Dry	1.79	NV
pH	Units	5.79	5.96	Dry	6.43	6.5-8.5(2)
Temperature	°C	17.51	17.73	Dry	29.40	NV
Turbidity	NTU	29.2	127	Dry	0.1	5(2)
General Chemistry Parameters:						
Alkalinity, total	mg/L	700	460	Dry	2200	NV
Ammonia-Nitrogen	mg/L	27	12	Dry	23	NV
Chemical Oxygen Demand	mg/L	61	66	Dry	160	NV
Chloride	mg/L	190	240	Dry	500	500(2)
Total Dissolved Solids	mg/L	3300	2900	Dry	3400	1000(2)
Total Organic Carbon	mg/L	57	35	Dry	60	NV
Metals						
Potassium	mg/L	27	19	Dry	39	NV
Volatile and Semivolatile Organic Compounds:						
Acetone	µg/L	8.0	160	Dry	8.0	NV
Benzene	µg/L	0.53	0.27	Dry	0.61j	1(1)-5(3)
Carbon Disulfide	µg/L	0.49	0.30j	Dry	0.49	NV
t-Butanol	µg/L	150	99	Dry	500	NV
2-Butanone	µg/L	6.1	170	Dry	6.1	NV
cis-1,2-Dichloroethene	µg/L	0.60	2.4	Dry	2.3	6(1)-70(3)
1,4-Dichlorobenzene	µg/L	2.5	5.7	Dry	1.5	5(1)-75(3)
1,4-Dioxane	µg/L	24	31	Dry	24	NV
Ethylbenzene	µg/L	0.71	2.4	Dry	0.71	300(1)
Methyl tert-butyl ether	µg/L	0.64j	0.21	Dry	2.5	13(1)/5(2)
Naphthalene	µg/L	0.64	3.1	Dry	0.64	NV
Styrene	µg/L	0.55	0.92	Dry	0.55	100(1,3)
m,p-Xylene	µg/L	1.60	4.1	Dry	1.60	1750(1)-10,000(3)
o-Xylene	µg/L	0.70	1.9	Dry	0.70	1750(1)-10,000(3)
Tetrachloroethene	µg/L	0.58	0.51	Dry	0.58	1750(1)-10,000(3)
Tetrahydrofuran	µg/L	5.0	4.7	Dry	2.1	NV
Trichloroethene	µg/L	0.58	0.56	Dry	0.58	5(1,3)
Toluene	µg/L	0.66	1.0	Dry	0.66	150(1)-1000(3)

Notes:

- (1) State of California Primary Drinking Water Standard
- (2) State of California Secondary Drinking Water Standard
- (3) Federal Maximum Contaminant Level
- (j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.
- NV: No ARAR value.
- NS: Not Sampled.
- ND: Analyte was not detected. Detection limit is unknown.
- * - Analyte also detected in a blank sample at a similar concentration.

0.25	Analyte was not detected. Value listed is the Method Detection Limit.
173	Analyte was detected.
2500	Analyte concentration exceeds ARAR value.

TABLE 8B
SUMMARY OF ANALYTICAL RESULTS FOR VADOSE ZONE LIQUID MONITORING POINTS
SECOND QUARTER 2021
SUNSHINE CANYON LANDFILL

Analyte	Units	SUBDRAIN MONITORING POINTS		LYSIMETERS		Maximum Contaminant Level
		Subdrain N	Combined Subdrains	LY-6	LY-7	
		5/17/2021	5/18/2021	5/19/2021	5/18/2021	
Field Parameters:						
Electrical Conductivity	mS/cm	4.14	3.97	Dry	5.49	NV
Oxidation Reduction Potential	mV	-70	-303	Dry	-31	NV
Oxygen, dissolved	mg/L	0.00	0.00	Dry	3.41	NV
pH	Units	5.91	6.92	Dry	7.16	6.5-8.5(2)
Temperature	°C	18.44	19.48	Dry	22.77	NV
Turbidity	NTU	47.9	137	Dry	2.5	5(2)
General Chemistry Parameters:						
Alkalinity, total	mg/L	970	1300	Dry	2200	NV
Alkalinity, bicarbonate	mg/L	970	1300	Dry	2200	NV
Ammonia-Nitrogen	mg/L	39	71	Dry	24	NV
Bromide	mg/L	2.1j	1.6	Dry	3.6	NV
Carbon dioxide	mg/L	190	370	Dry	250	NV
Chemical Oxygen Demand	mg/L	250	360	Dry	170	NV
Chloride	mg/L	170	140	Dry	510	500(2)
Fluoride	mg/L	1.4j	2.2	Dry	1.0	2(1)-4(3)
Nitrate as Nitrogen	mg/L	0.28	0.11	Dry	0.28	10(1,3)
Sulfate	mg/L	1500	900	Dry	350	500(2)
Sulfide, total	mg/L	0.027	130	Dry	0.027	NV
Total Dissolved Solids	mg/L	3600	2900	Dry	3700	1000(2)
Total Organic Carbon	mg/L	91	91	Dry	71	NV
Metals						
Boron	mg/L	1.1	0.84	Dry	6.6	NV
Calcium	mg/L	370	320	Dry	180	NV
Iron	mg/L	210	9.6	Dry	0.78	0.3(2)
Magnesium	mg/L	220	230	Dry	160	NV
Manganese	mg/L	1.7	3.7	Dry	2.0	0.05(2)
Potassium	mg/L	26	19	Dry	37	NV
Sodium	mg/L	270	210	Dry	870	NV
Volatile and Semivolatile Organic Compounds:						
Acetone	µg/L	11j*	4.0	Dry	8.0	NV
Benzene	µg/L	0.53	0.27	Dry	0.61j	1(1)-5(3)
Chlorobenzene	µg/L	0.48	0.33j	Dry	0.48	70(1)-100(3)
t-Butanol	µg/L	27	20	Dry	460	NV
cis-1,2-Dichloroethene	µg/L	0.60	1.3	Dry	2.2	6(1)-70(3)
1,4-Dichlorobenzene	µg/L	1.2	15	Dry	1.6	5(1)-75(3)
1,4-Dioxane	µg/L	22	18	Dry	25	NV
Ethylbenzene	µg/L	0.71	8.9	Dry	0.71	300(1)
Methyl tert-butyl ether	µg/L	0.50j	0.21	Dry	2.6	13(1)/5(2)
Naphthalene	µg/L	0.64	11	Dry	0.64	NV
Styrene	µg/L	0.55	1.0	Dry	0.55	100(1,3)
m,p-Xylene	µg/L	1.60	11	Dry	1.60	1750(1)-10,000(3)
o-Xylene	µg/L	0.70	6.5	Dry	0.70	1750(1)-10,000(3)
Tetrachloroethene	µg/L	0.58	0.42j	Dry	0.58	1750(1)-10,000(3)
Tetrahydrofuran	µg/L	6.9*	4.2	Dry	2.1	NV
Toluene	µg/L	0.66	2.4	Dry	0.66	150(1)-1000(3)

Notes:

- (1) State of California Primary Drinking Water Standard
- (2) State of California Secondary Drinking Water Standard
- (3) Federal Maximum Contaminant Level
- (j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.
- NV: No ARAR value.
- NS: Not Sampled.
- ND: Analyte was not detected. Detection limit is unknown.
- * - Analyte also detected in a blank sample at a similar concentration.

0.25	Analyte was not detected. Value listed is the Method Detection Limit.
173	Analyte was detected.
2500	Analyte concentration exceeds ARAR value.

TABLE 9
SUMMARY OF METHANE CONCENTRATIONS FOR VADOSE ZONE GAS MONITORING POINTS
FIRST SEMIANNUAL 2021 MONITORING PERIOD
SUNSHINE CANYON LANDFILL

Probe ID	Interval	Depth (ft bgs)	1/19/2021 - 1/21/2021	2/15/2021 - 2/18/2021	3/23/2021 - 3/25/2021	4/20/2021 - 4/29/2021	5/25/2021 - 5/27/2021	6/22/2021 - 6/24/2021
P-202	A	10-15	Removed Due to Construction					
	B	25-30						
	C	40-45						
P-202R	A	10-15	0.1	0.0	0.0	0.0	0.0	0.0
	B	25-30	0.1	0.0	0.0	0.0	0.0	0.0
	C	40-45	0.1	0.0	0.0	0.0	0.0	0.0
P-203	A	10-15	0.1	0.0	0.0	0.0	0.0	0.0
	B	25-30	0.1	0.0	0.0	0.0	0.0	0.0
	C	40-45	0.1	0.0	0.0	0.0	0.0	0.0
P-205R	A	6-11	0.1	0.0	0.0	0.0	0.0	0.0
	B	20-25	0.1	0.0	0.0	0.1	0.0	0.0
	C	33-38	1.4	0.7	1.0	0.6	1.5	0.5
	D	48-53	1.9	1.0	2.0	1.7	2.3	2.0
	E	62-67	0.2	0.0	0.0	0.0	0.0	0.0
P-206	A	10-15	0.0	0.0	0.0	0.0	0.0	0.0
	B	25-30	0.0	0.0	0.0	0.0	0.0	0.0
	C	40-45	0.0	0.0	0.0	0.0	0.0	0.0
P-207	A	10-15	0.1	0.0	0.0	0.1	0.2	0.0
	B	25-30	0.0	0.0	0.0	0.0	0.2	0.0
	C	40-45	0.0	0.0	0.1	0.0	0.2	0.0
P-208	A	10-15	0.0	0.0	0.0	0.0	0.0	0.0
	B	25-30	0.0	0.0	0.0	0.0	0.0	0.0
	C	40-45	0.0	0.0	0.0	0.0	0.0	0.0
P-210	A	10-15	0.0	0.0	0.0	0.0	0.0	0.0
	B	25-30	0.0	0.0	0.0	0.0	0.0	0.0
	C	40-45	0.0	0.0	0.0	0.0	0.0	0.0
P-213	A	7-15	0.0	0.0	0.0	0.0	0.0	0.0
	B	23-31	0.0	0.0	0.0	0.0	0.0	0.0
	C	39-47	0.1	0.0	0.0	0.0	0.0	0.0
	D	55-62	0.0	0.0	0.0	0.0	0.0	0.0
	E	71-80	0.0	0.0	0.0	0.0	0.0	0.0
P-214	A	7-16	0.0	0.0	0.0	0.0	0.0	0.1
	B	23-32	0.0	0.0	0.0	0.0	0.0	0.0
	C	42-51	0.0	0.0	0.0	0.0	0.0	0.0
P-215	A	7-14	0.0	0.0	0.0	0.0	0.0	0.0
	B	24-31	0.0	0.0	0.0	0.0	0.0	0.0
	C	41-48	0.0	0.0	0.0	0.0	0.0	0.0
	D	58-65	0.0	0.0	0.0	0.0	0.0	0.0
	E	75-82	0.0	0.0	0.0	0.0	0.0	0.0
P-216	A	8-15	0.0	0.0	0.0	0.0	0.0	0.0
	B	32-37	0.0	0.0	0.0	0.0	0.0	0.0
	C	56-63	0.0	0.0	0.0	0.0	0.0	0.0
	D	80-87	0.0	0.0	0.0	0.0	0.0	0.0
	E	104-111	0.0	0.0	0.0	0.0	0.0	0.0
P-217R	A	6-11	0.0	0.0	0.0	0.0	0.0	0.0
	B	16-21	0.0	0.0	0.0	0.0	0.0	0.0

NR - No reading available.

TABLE 9, CONTINUED
SUMMARY OF METHANE CONCENTRATIONS FOR VADOSE ZONE GAS MONITORING POINTS
FIRST SEMIANNUAL 2021 MONITORING PERIOD
SUNSHINE CANYON LANDFILL

Probe ID	Interval	Depth (ft bgs)	1/19/2021 - 1/21/2021	2/15/2021 - 2/18/2021	3/23/2021 - 3/25/2021	4/20/2021 - 4/29/2021	5/25/2021 - 5/27/2021	6/22/2021 - 6/24/2021
P-218R	A	5-8	0.0	0.0	0.0	0.1	0.0	0.0
	B	26.5-30	0.0	0.0	0.0	0.1	0.0	0.0
	C		0.0	0.0	0.0	0.1	0.0	0.0
P-219	A	7-15	0.0	0.0	0.0	0.0	0.0	0.0
	B	57-66	0.0	0.0	0.0	0.0	0.0	0.0
	C	109-117	0.0	0.0	0.0	0.0	0.0	0.0
	D	158-167	0.0	0.0	0.0	0.0	0.0	0.0
	E	209-218	0.0	0.0	0.0	0.0	0.0	0.0
P-220	A	6.9-14	0.0	0.0	0.0	0.0	0.0	0.0
	B	44-51	0.0	0.0	0.0	0.0	0.0	0.0
	C	79-88	0.0	0.0	0.0	0.0	0.0	0.0
	D	117-127	0.0	0.0	0.0	0.0	0.0	0.0
	E	150-159	0.0	0.0	0.0	0.0	0.0	0.0
P-220B	A	8-15	0.0	0.0	0.0	0.0	0.0	0.0
	B	32-39	0.0	0.0	0.0	0.0	0.0	0.0
	C	56-61	0.0	0.0	0.0	0.0	0.0	0.0
	D	80-87	0.0	0.0	0.0	0.0	0.0	0.0
	E	104-111	0.0	0.0	0.0	0.0	0.0	0.0
P-221	A	5-14	0.0	0.0	0.1	0.0	0.0	0.0
	B	49-58	0.0	0.0	0.1	0.0	0.0	0.0
	C	91-101	0.1	0.0	0.1	0.0	0.0	0.0
	D	134-143	0.0	0.0	0.1	0.0	0.0	0.0
	E	176-186	0.0	0.0	0.0	0.0	0.0	0.0
P-222	A	7-15	0.0	0.0	0.0	0.0	0.0	0.0
	B	48-57	0.0	0.0	0.0	0.0	0.0	0.0
	C	88-98	0.0	0.0	0.0	0.0	0.0	0.0
	D	132-141	0.3	0.0	0.0	0.0	0.0	0.0
	E	173-181	0.0	0.0	0.0	0.0	0.0	0.0
P-223	A	7-15	0.0	0.0	0.1	0.0	0.0	0.0
	B	32-41	0.0	0.0	0.0	0.0	0.0	0.0
	C	51-64	0.0	0.0	0.1	0.0	0.0	0.0
	D	78-88	0.0	0.0	0.1	0.0	0.0	0.0
	E	100-113	0.0	0.0	0.1	0.0	0.0	0.0
P-224	A	5-14	0.0	0.0	0.0	0.0	0.0	0.0
	B	60-70	0.0	0.0	0.1	0.0	0.0	0.0
	C	115-125	0.4	0.0	0.3	0.0	0.0	0.0
	D	168-180	0.0	0.0	0.0	0.0	0.0	0.0
	E	223-236	0.0	0.0	0.0	0.0	0.0	0.0
P-225	A	7-14	0.0	0.0	0.0	0.0	0.2	0.0
	B	65-73	0.0	0.0	0.0	0.0	0.0	0.0
	C	124-133	0.0	0.0	0.0	0.0	0.0	0.0
	D	184-192	0.0	0.0	0.0	0.0	0.0	0.0
	E	243-250	0.0	0.0	0.0	0.0	0.0	0.0
P-226	A	7-14	0.0	0.0	0.0	0.0	0.0	0.0
	B	58-68	0.0	0.0	0.0	0.0	0.0	0.0
	C	108-117	0.0	0.0	0.0	0.0	0.0	0.0
	D	158-168	0.0	0.0	0.0	0.0	0.0	0.0
	E	202-209	0.0	0.0	0.0	0.0	0.0	0.0

NR - No reading available.

TABLE 9, CONTINUED
SUMMARY OF METHANE CONCENTRATIONS FOR VADOSE ZONE GAS MONITORING POINTS
FIRST SEMIANNUAL 2021 MONITORING PERIOD
SUNSHINE CANYON LANDFILL

Probe ID	Interval	Depth (ft bgs)	1/19/2021 - 1/21/2021	2/15/2021 - 2/18/2021	3/23/2021 - 3/25/2021	4/20/2021 - 4/29/2021	5/25/2021 - 5/27/2021	6/22/2021 - 6/24/2021
P-227	A	6-15	0.0	0.0	0.0	0.0	0.0	0.0
	B	46-55	0.6	0.0	0.0	0.0	0.0	0.0
	C	85-95	0.0	0.0	0.0	0.0	0.0	0.0
	D	126-134	0.0	0.0	0.1	0.0	0.0	0.0
	E	164-172	0.0	0.0	0.2	0.0	0.0	0.0
P-228	A	7-14	0.0	0.0	0.9	0.0	0.0	0.0
	B	56-65	0.0	0.0	0.1	0.0	0.0	0.0
	C	107-115	0.6	0.0	0.7	0.0	0.0	0.0
	D	156-165	0.0	0.0	0.0	0.0	0.0	0.0
	E	203-214	0.0	0.0	0.0	0.0	0.0	0.0
P-229	A	4-15	0.0	0.0	0.1	0.0	0.0	0.0
	B	42-50	0.0	0.0	0.1	0.0	0.0	0.0
	C	77-86	0.0	0.0	0.0	0.0	0.0	0.0
	D	106-115	0.0	0.0	0.0	0.0	0.0	0.0
	E	150-159	0.0	0.0	0.0	0.0	0.0	0.0
P-230R	A	7-14	REMOVED DUE TO CONSTRUCTION					
	B	35						
	C	50						
P-231	A	4-14	REMOVED DUE TO CONSTRUCTION					
	B	20-27						
	C	33-40						
	D	45-53						
	E	58-67						
P-239	A	10-15	0.0	0.0	0.0	0.0	0.0	0.0
	B	47-52	0.0	0.0	0.0	0.0	0.0	0.0
	C	78-83	0.0	0.0	0.0	0.0	0.0	0.0
	D	109-114	0.0	0.0	0.0	0.0	0.0	0.0
	E	140-145	0.0	0.0	0.0	0.0	0.0	0.0
P-240	A	10-15	0.0	0.0	0.0	0.0	0.0	0.0
	B	69-74	0.0	0.0	0.0	0.0	0.0	0.0
	C	133-138	0.0	0.0	0.0	0.0	0.0	0.0
	D	206-211	0.0	0.0	0.0	0.0	0.0	0.0
	E	268-273	0.1	0.0	0.1	0.0	0.0	0.1
P-241	A	10-15	0.0	0.1	0.1	0.0	0.0	0.0
	B	37-42	0.0	0.0	0.0	0.0	0.0	0.0
	C	61-66	0.0	0.0	0.0	0.0	0.0	0.0
	D	85-90	0.0	0.0	0.0	0.0	0.0	0.0
	E	109-114	0.0	0.0	0.0	0.0	0.0	0.0
P-242	C	42-47	0.0	0.0	0.0	0.0	0.0	0.0
	D	60-65	0.0	0.0	0.0	0.0	0.0	0.0
	E	78-83	0.0	0.0	0.0	0.0	0.0	0.0
P-243	A	6-11	0.1	0.0	0.0	0.0	0.1	0.0
	B	20-29	0.1	0.0	0.0	0.0	0.0	0.0
	C	33-38	0.1	0.0	0.0	0.0	0.0	0.0
P-244	A	6-11	0.0	0.0	0.0	0.0	0.0	0.0
	B	21-26	0.0	0.0	0.1	0.0	0.0	0.0
	C	36-41	0.0	0.0	0.0	0.0	0.0	0.0

NR - No reading available.

TABLE 9, CONTINUED
SUMMARY OF METHANE CONCENTRATIONS FOR VADOSE ZONE GAS MONITORING POINTS
FIRST SEMIANNUAL 2021 MONITORING PERIOD
SUNSHINE CANYON LANDFILL

Probe ID	Interval	Depth (ft bgs)	1/19/2021 - 1/21/2021	2/15/2021 - 2/18/2021	3/23/2021 - 3/25/2021	4/20/2021 - 4/29/2021	5/25/2021 - 5/27/2021	6/22/2021 - 6/24/2021
P-245	A	6-11	0.1	0.0	0.0	0.0	0.0	0.0
	B	20-25	0.2	0.0	0.0	0.0	0.0	0.0
	C	35-40	0.1	0.0	0.0	0.0	0.0	0.0
	D	50-55	0.2	0.0	0.0	0.0	0.0	0.0
	E	64-69	0.0	0.0	0.0	0.0	0.0	0.0
P-246	A	6-9	REMOVED DUE TO CONSTRUCTION					
	B	12-19						
Subdrains	P-203D		0.0	0.0	0.0	0.0	0.0	0.0
	P204D		0.0	0.0	0.0	0.0	0.0	0.0
	P-211D		0.0	0.0	0.0	0.0	0.0	0.0

NR - No reading available.

TABLE 10
SUMMARY OF ANALYTICAL RESULTS FOR STORMWATER SAMPLES
FIRST SEMI ANNUAL 2021 MONITORING PERIOD
SUNSHINE CANYON LANDFILL

Analyte	Units	Stormwater			
		1/4/2021	1/26/2021	2/2/2021	3/16/2021
General Chemistry Parameters:					
Ammonia-Nitrogen	mg/L	1.3	0.88	3.8	0.66
Biochemical Oxygen Demand	mg/L	15	12	5.9	6.1
Chemical Oxygen Demand	mg/L	79	46	14j	32
Chloride	mg/L	19	25	23	20
Fluoride	mg/L	0.50	0.96	0.96	0.81
Nitrate as N	mg/L	1.2	1.1	1.3	1.2
Nitrite as N	mg/L	0.069j	0.086j	0.065j	0.088j
Nitrate+Nitrite as N	mg/L	1.3	1.2	1.4	1.3
Oil & Grease (HEM)	mg/L	1.4	0.87j	0.77	1.2
Total Suspended Solids	mg/L	6.9	16	31	39
Metals:					
Aluminum	mg/L	0.18	0.42	0.57	2.3
Antimony	mg/L	0.00087j	0.00059j	0.0014j	0.0011j
Arsenic	mg/L	0.0021	0.0011	0.0014	0.0023
Beryllium	mg/L	0.00025	0.00025	0.00025	0.00025
Cadmium	mg/L	0.0022	0.0025	0.0014	0.0015
Copper	mg/L	0.0085	0.0078	0.0054	0.012
Iron	mg/L	0.27	0.73	2.2	4.4
Lead	mg/L	0.00050	0.00050	0.00054j	0.0022
Manganese	mg/L	2.7	3.2	5.4	2.2
Mercury	mg/L	0.00010	0.00010	0.00010	0.00010
Nickel	mg/L	0.11	0.12	0.11	0.078
Phosphorus	mg/L	0.041j	0.062	0.050	0.20
Selenium	mg/L	0.0019j	0.0022	0.0021	0.0024
Silver	mg/L	0.00050	0.00050	0.00050	0.00050
Zinc	mg/L	0.13	0.11	0.12	0.059†
Volatile Organic Compounds (8260B):					
Acrylonitrile	µg/L	1.7	0.87	1.7	1.7
Alpha-Terpineol	µg/L	2.9j	2.4	2.4	2.3
Benzene	µg/L	0.53	0.27	0.53	0.53
Ethylbenzene	µg/L	0.71	0.36	0.71	0.71
Toluene	µg/L	0.66	0.33	0.66	0.66
Trichloroethene	µg/L	0.58	0.29	0.58	0.58
Semivolatile Organic Compounds (8270C):					
Benzoic Acid	µg/L	12	12	12	12
Butyl Benzyl Phthalate	µg/L	2.4	2.4	2.4	2.4
m+p-Cresol	µg/L	2.1	2.1	2.1	2.1
Dimethyl Phthalate	µg/L	2.5	2.5	2.5	2.5
Fluoranthene	µg/L	3.0	3.0	3.0	3.0
Phenol	µg/L	2.0	2.0	2.0	2.0
Pyrene	µg/L	2.9	2.8	2.8	2.8
Polychlorinated Biphenyls (608.3): None detected.					

Notes:

(j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.

(†) Indicates compound was also found in the method blank.

ND: Analyte was not detected. Detection limit is unknown.

0.25 Analyte was not detected. Value listed is the Method Detection Limit.

NA Analyte was not analyzed.

173 Analyte was detected. Value reported by laboratory.

TABLE 11
SUMMARY OF ANALYTICAL RESULTS FOR LEACHATE MONITORING POINTS
APRIL 2021
SUNSHINE CANYON LANDFILL

Analyte	Units	LEACHATE MONITORING POINTS	
		LR-2R	DEEP LEACHATE
		4/27/2021	4/27/2021
Volatile Organic Compounds (8260B):			
Naphthalene	µg/L	19	NA

Notes:

173
NA

Analyte was detected.
 Analyte was not analyzed.

TABLE 12
SUMMARY OF COLLECTED WATER SOURCES - FIRST SEMIANNUAL 2021 MONITORING PERIOD
SUNSHINE CANYON LANDFILL

Month	Total Purchase Water	Subdrains	Landfill Leachate	Landfill Gas Condensate	Seep Collectors	Groundwater Cutoff Wall	MONTHLY TOTALS
January	6,671,412	1,917,195	368,036	1,176,367	87,337	696,459	10,916,806
February	6,559,960	1,754,768	342,543	1,292,012	167,402	665,524	10,782,209
March	7,318,432	2,071,900	409,269	1,232,302	108,699	269,678	11,410,280
April	7,448,584	2,008,933	361,764	1,066,717	2,223	0	10,888,221
May	4,618,152	1,978,640	330,922	986,138	2,028	0	7,915,880
June	9,246,028	2,302,338	417,428	1,264,154	176,945	0	13,406,893
JANUARY - JUNE 2021 TOTAL:	41,862,568	12,033,774	2,229,962	7,017,690	544,634	1,631,661	65,320,289

**TABLE 13
SUNSHINE CANYON LANDFILL
IMPORTED SOIL SAMPLING SUMMARY - FIRST SEMIANNUAL 2021 MONITORING PERIOD**

GENERATOR	SAMPLER	WASTE TYPE	QUANTITY	CONSTITUENTS ANALYZED
Stericycle, Inc.	No Samples Taken	Treated & Sterilized Medical Waste	26,000 Tons	No Samples Taken
Medical Waste Services LLC	No Samples Taken	Treated Medical Waste, Treated APHIS Waste/Foreign Garbage, FDA Confiscated Items	2,100 Tons	No Samples Taken
Los Angeles County Fire Department	No Samples Taken	Los Angeles Fire department Fire Fighter Garments	5 Tons	No Samples Taken
Port of Los Angeles	No Samples Taken	Empty Paint Cans	30 Cubic Yards	No Samples Taken
Bumble Bee Foods LLC	No Samples Taken	Canned Foods	300,000 Pounds	No Samples Taken
Orange Traders LLC	No Samples Taken	Vegetable Disposal, packed individually in box	1 Ton	No Samples Taken
Calstate Pipeline Inc	Enviro - Chem, Inc.	Sand/Silt (Non Haz)	15 Cubic Yards	CH, OCP, OPP, TPH, VOC, SVOCs, Title 22 Metals, STLC Cr and Cu, TCLP Cr
SA Recycling LLC/ Sun Valley	Enviro - Chem, Inc.	TPH-Contaminated Soil (Non Haz Soil)	65 Tons	TPH, VOCs, Moisture, PCBs and Title 22 Metals
Southern California Edison/ Downey Substation	American Environmental	Non Haz Soil	40 Cubic Yards	TPH, VOCs, PCBs, Title 22 Metals, Moisture, and STLC As
SA Recycling LLC/ Montebello	Enviro - Chem, Inc.	TPH-Contaminated Soil (Non Haz Soil)	20 Tons	TPH, VOCs, Moisture, PCBs, Title 22 Metals, and STLC Cr
Greenfield Produce Imports	No Samples Taken	Food Product - Hawaii Sweet Potato	660 Pounds	No Samples Taken
Southern California Edison/ Amador Substation	American Environmental	Non Haz Soil	100 Tons	TPH, VOCs, PCBs, Title 22 Metals, Moisture, and STLC As
Southern California Edison/ Crater Substation	Asset Laboratories	Non Haz Soil	3 Cubic Yards	TPH, PCBs, Title 22 Metals, Moisture
Global Farms	No Samples Taken	Food Product - Organic Ginger Root	18,000 Pounds	No Samples Taken
Los Angeles County Sheriff's Department, CPE	No Samples Taken	Marijuana/Off Spec	35,000 Pounds	No Samples Taken
Tate & Lyle PLC	No Samples Taken	Industrial Process Waste - Polydextrose	21 Tons	No Samples Taken
Uchida of America Corp	No Samples Taken	Non Haz Waste - Old Pens and Markers	3,000 Pounds	No Samples Taken

Notes:

VOC: Volatile Organic Compound
OCP: Organochlorine Pesticides
PCB: Polychlorinated Biphenyls
PAH: Polynuclear Aromatic Hydrocarbons
CH: Chlorinated Herbicides

TPH: Total Petroleum Hydrocarbons
OPP: Organophosphorus Pesticides
SVOC: Semivolatile Organic Compound
MSDS: Material Safety Data Sheet

*No Samples Taken: Waste previously characterized, or no characterization required (e.g. cured asphalt, treated wood, etc). Special waste decision changed/recertified to extend expiration date, account for increases in volume estimates, or to change to ongoing disposal.

TABLE 14
SUNSHINE CANYON LANDFILL
GENERATOR: CALSTATE PIPELINE / PICO RIVERA
SOIL SAMPLING
ESTIMATED ANNUAL QUANTITY: 15 Cubic Yards

SAMPLE	LACSD/ Unit H SA	LACSD	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	08/31/20	02/26/21	Level (mg/kg)	Limit	Limit
SAMPLED BY	Enviro-Chem, Inc.	Enviro-Chem, Inc.			
DATE ANALYZED	9/14-20/2020	2/28-03/01/2021			
METALS (mg/kg) METHOD 6010B/7000CAM:					
Antimony	1.0	NA	500	380	30
Arsenic	0.3	NA	500	500	12
Barium	136	NA	10,000	10,000	5,200
Beryllium	0.5	NA	75	75	16
Cadmium	0.5	NA	100	100	1.7
Chromium	119	NA	2,500	2,500	45
Cobalt	1.0	NA	8,000	350	23
Copper	275	NA	2,500	2,500	2,500
Lead	48.7	NA	1,000	350	80
Mercury	0.707	NA	20	20	9.4
Molybdenum	5.0	NA	3,500	3,500	380
Nickel	45.0	NA	2,000	2,000	1,500
Selenium	1.0	NA	100	100	100
Silver	1.0	NA	500	500	380
Thallium	1.0	NA	700	111	0.78
Vanadium	5.0	NA	2,400	2,400	390
Zinc	460	NA	5,000	5,000	5,000
METALS (mg/L) METHOD 6010B-TCLP:					
Chromium	NA	5.0	5	NS	NS
METALS (mg/L) METHOD 6010B-STLC:					
Chromium	1.84	NA	5	NS	NS
Copper	1.0	NA	25	500	12
VOLATILE ORGANIC COMPOUNDS (mg/kg) METHOD 8260B: None Detected					
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg) METHOD 8270:					
Bis (2-Ethylexyl) Phthalate	0.899	NA	NS	NS	NS
ORGANOCHLORINE PESTICIDES (ug/kg) METHOD 8081A: NONE DETECTED					
ORGANOPHOSPHORUS PESTICIDES (ug/kg) METHOD 8141A: NONE DETECTED					
CHLORINATED HERBICIDES (ug/kg) METHOD 8151A: NONE DETECTED					

Notes:

NA: Not Analyzed

NS: Not Specified

STLC: Soluble Threshold Limit Concentration.

TCLP: Toxicity Characteristic Leaching Procedure.

Left justified and shaded: Not detected. Value shown is Practical Quantitation Limit.

Right-Justified and no shading: Qualifiable result shown.

Only detected Organics are shown.

TABLE 15
SUNSHINE CANYON LANDFILL
GENERATOR: SA RECYCLING LLC / SUN VALLEY
SOIL SAMPLING
ESTIMATED ANNUAL QUANTITY: 65 Tons

SAMPLE	01	02	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	02/11/21	02/11/21	Level (mg/kg)	Limit	Limit
SAMPLED BY	Enviro-Chem, Inc.	Enviro-Chem, Inc.			
DATE ANALYZED	02/12/21	02/12/21			
METALS (mg/kg) METHOD 6010B/7000CAM:					
Antimony	1.0	1.0	500	380	30
Arsenic	0.3	13.1	500	500	12
Barium	113	104	10,000	10,000	5,200
Beryllium	0.5	0.5	75	75	16
Cadmium	0.5	0.5	100	100	1.7
Chromium	57.9	69.4	2,500	2,500	45
Cobalt	12.7	11.9	8,000	350	23
Copper	14.6	22.2	2,500	2,500	2,500
Lead	19.0	17.9	1,000	350	80
Mercury	0.030	0.01	20	20	9.4
Molybdenum	5.0	5.0	3,500	3,500	380
Nickel	2.5	2.5	2,000	2,000	1,500
Selenium	1.0	1.0	100	100	100
Silver	1.0	1.0	500	500	380
Thallium	1.0	1.0	700	111	0.78
Vanadium	5.0	79.1	2,400	2,400	390
Zinc	83.1	81.1	5,000	5,000	5,000
METALS (mg/L) METHOD 6010B-STLC:					
Chromium	0.359	0.357	5.0 (mg/L)	NS	NS
VOLATILE ORGANIC COMPOUNDS (mg/kg) METHOD 8260B: None Detected					
PETROLEUM HYDROCARBONS (mg/kg) METHOD M8015B:					
TPH-Diesel Range (C10 - C28)	52.6	251	NS	1,000 (C4-C12)/ 10,000 (C12-C22)/ NS (≥C23)	10 (C4-C12)/ 10 (C12-C22)/ 500 (≥C23)
TPH-Motor Oil Range (C28 - C35)	158	706	NS	NS (≥C23)	500 (≥C23)
MOISTURE CONTENT (%wt) Method 160.3M:					
Moisture Content	7.56	8.42	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED					

Notes:

NA: Not Analyzed

NS: Not Specified

STLC: Soluble Threshold Limit Concentration.

Left justified and shaded: Not detected. Value shown is Practical Quantitation Limit.

Right-Justified and no shading: Qualifiable result shown.

Only detected Organics are shown.

TABLE 16
 SUNSHINE CANYON LANDFILL
 GENERATOR: SOUTHERN CALIFORNIA EDISON / DOWNEY SUBSTATION
 SOIL SAMPLING
 ESTIMATED ANNUAL QUANTITY: 40 Cubic Yards

SAMPLE	HA1-0.5'	HA1-2.0'	HA2-0.5'	HA2-2.0'	HA3-0.5'	HA3-2.0'	Hazardous Level (mg/kg)	Lined Cell Limit	Unrestricted Limit			
DATE SAMPLED	11/17/20	11/17/20	11/17/20	11/17/20	11/17/20	11/17/20						
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental						
DATE ANALYZED	11/23/20	11/23/20	11/23/20	11/23/20	11/23/20	11/23/20						
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:												
Moisture Content	5.85	5.77	7.02	9.62	7.92	11.40	NS	50	NS			
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED												

Notes:

ND: Not Detected

NA: Not Analyzed

NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 17
SUNSHINE CANYON LANDFILL
GENERATOR: SOUTHERN CALIFORNIA EDISON / CULVER CITY SUBSTATION
SOIL SAMPLING
ESTIMATED ANNUAL QUANTITY: 40 Cubic Yards

SAMPLE	C1	C2	C3	HA1-COMP	HA2-COMP	HA3-COMP	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	11/17/20	11/17/20	11/17/20	11/17/20	11/17/20	11/17/20	Level (mg/kg)	Limit	Limit
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	11/23/20	11/23/20	11/23 & 12/4/2020	11/24-25 & 12/2/2020	11/24-25 & 12/2/2020	11/24-25 & 12/2-7/2020			
METALS (mg/kg) METHOD 6010B/7000CAM:									
Antimony	NA	NA	NA	2.00	2.00	2.68	500	380	30
Arsenic	NA	NA	NA	46.6	23.2	69.20	500	500	12
Barium	NA	NA	NA	125	140	134	10,000	10,000	5,200
Beryllium	NA	NA	NA	1.00	1.00	1.00	75	75	16
Cadmium	NA	NA	NA	1.00	1.00	1.00	100	100	1.7
Chromium	NA	NA	NA	21.3	21.8	23.4	2,500	2,500	45
Cobalt	NA	NA	NA	11.6	11.9	13.4	8,000	350	23
Copper	NA	NA	NA	107.0	47.5	48.5	2,500	2,500	2,500
Lead	NA	NA	NA	26.4	27.3	21.9	1,000	350	80
Mercury	NA	NA	NA	0.100	0.100	0.100	20	20	9.4
Molybdenum	NA	NA	NA	1.00	1.00	1.00	3,500	3,500	380
Nickel	NA	NA	NA	17.2	16.8	18.8	2,000	2,000	1,500
Selenium	NA	NA	NA	2.00	2.00	2.00	100	100	100
Silver	NA	NA	NA	1.00	1.00	1.00	500	500	380
Thallium	NA	NA	NA	2.00	2.00	2.00	700	111	0.78
Vanadium	NA	NA	NA	43.0	44.3	45.5	2,400	2,400	390
Zinc	NA	NA	NA	189	221	213	5,000	5,000	5,000
METALS (mg/L) METHOD 6010B-STLC:									
Arsenic	NA	NA	NA	NA	NA	1.30	500	500	12
VOLATILE ORGANIC COMPOUNDS (mg/kg) METHOD 8260B: NONE DETECTED									
PETROLEUM HYDROCARBONS (mg/kg) METHOD M8015G/M8015D: NONE DETECTED									
TRPH (C4-C12)	NA	10.0	10.0	10.0	10.0	10.0	NS	1,000	10
*TPH Diesel (13-22)	NA	1550	917	10.0	10.0	10.0	NS	10,000	10
*TPH Heavy (23-40)	NA	2240	4890	100	100	100	NS	NS	500
*TPH Diesel + Heavy (13-40)	NA	3790	5800	100	100	100	NS	NS	500
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:									
Moisture Content	1.14	1.81	2.30	NA	NA	NA	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED									

Notes:

NA: Not Analyzed

NS: Not Specified

*Threshold for average TPH for Disposal in a lined cell = 50,000 mg/kg

Left justified and shaded: Not detected. Value shown is Practical Quantitation Limit.

Right-justified and no shading: Qualifiable result shown.

Only detected Organics are shown.

TABLE 18
SUNSHINE CANYON LANDFILL
GENERATOR: SOUTHERN CALIFORNIA EDISON / DOWNEY SUBSTATION
SOIL SAMPLING
ESTIMATED ANNUAL QUANTITY: 40 Cubic Yards

SAMPLE	HA1-0.5'	HA1-2.0'	C1	HA1-COMP	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	01/07/21	01/07/21	01/07/21	01/07/21	Level (mg/kg)	Limit	Limit
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	01/07/21	01/07/21	1/7-12/2021	01/08/21			
METALS (mg/kg) METHOD 6010B/7000CAM:							
Antimony	NA	NA	NA	5.00	500	380	30
Arsenic	NA	NA	NA	40.2	500	500	12
Barium	NA	NA	NA	112.0	10,000	10,000	5,200
Beryllium	NA	NA	NA	2.50	75	75	16
Cadmium	NA	NA	NA	2.50	100	100	1.7
Chromium	NA	NA	NA	16.0	2,500	2,500	45
Cobalt	NA	NA	NA	9.35	8,000	350	23
Copper	NA	NA	NA	23.8	2,500	2,500	2,500
Lead	NA	NA	NA	12.5	1,000	350	80
Mercury	NA	NA	NA	0.200	20	20	9.4
Molybdenum	NA	NA	NA	5.00	3,500	3,500	380
Nickel	NA	NA	NA	13.5	2,000	2,000	1,500
Selenium	NA	NA	NA	5.00	100	100	100
Silver	NA	NA	NA	5.00	500	500	380
Thallium	NA	NA	NA	5.00	700	111	0.78
Vanadium	NA	NA	NA	34.5	2,400	2,400	390
Zinc	NA	NA	NA	66.0	5,000	5,000	5,000
VOLATILE ORGANIC COMPOUNDS (mg/kg) METHOD 8260B:							
Acetone	NA	NA	0.366	NA	NS	670,000	61,000
2-Butanone (MEK)	NA	NA	0.104	NA	NS	190,000	27,000
2-Hexanone	NA	NA	0.146	NA	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	NA	NA	0.0386	NA	NS	56,000	5,300
Toluene	NA	NA	0.00224	NA	NS	47,000	4,900
m,p-Xylenes	NA	NA	0.00150	NA	NS	97,465	580
PETROLEUM HYDROCARBONS (mg/kg) METHOD M8015G/M8015D: NONE DETECTED							
TRPH (C4-C12)	NA	NA	10.0	10.0	NS	1,000	10
*TPH Diesel (13-22)	NA	NA	2950	10.0	NS	10,000	10
*TPH Heavy (23-40)	NA	NA	7590	100.0	NS	NS	500
*TPH Diesel + Heavy (13-40)	NA	NA	10500	100.0	NS	NS	500
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:							
Moisture Content	13.0	14.2	2.37	NA	NS	NS	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED							

Notes:

ND: Not Detected

NA: Not Analyzed

NS: Not Specified

*Threshold for average TPH for Disposal in a lined cell = 50,000 mg/kg

Left justified and shaded: Not detected. Value shown is Practical Quantitation Limit.

Right-Justified and no shading: Quantifiable result shown.

Only detected Organics are shown.

TABLE 19
SUNSHINE CANYON LANDFILL
GENERATOR: SA RECYCLING LLC / MONTEBELLO
SOIL SAMPLING
ESTIMATED ANNUAL QUANTITY: 20 Tons

SAMPLE	1A	2A	2B	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	04/08/21	04/08/21	04/08/21	Level (mg/kg)	Limit	Limit
SAMPLED BY	Enviro-Chem, Inc.	Enviro-Chem, Inc.	Enviro-Chem, Inc.			
DATE ANALYZED	4/9-13/21	4/9-13/21	4/9-13/21			
METALS (mg/kg) METHOD 6010B/7000CAM:						
Antimony	1.0	1.0	1.0	500	380	30
Arsenic	2.16	2.61	3.31	500	500	12
Barium	69.5	58.8	78.2	10,000	10,000	5,200
Beryllium	0.5	0.5	0.5	75	75	16
Cadmium	0.5	1.12	0.513	100	100	1.7
Chromium	28.2	35.2	34.6	2,500	2,500	45
Cobalt	6.19	5.66	6.98	8,000	350	23
Copper	19.3	32.4	48.5	2,500	2,500	2,500
Lead	12.3	19.1	20.4	1,000	350	80
Mercury	0.479	0.298	0.830	20	20	9.4
Molybdenum	5.0	5.0	5.0	3,500	3,500	380
Nickel	16.1	23.0	25.7	2,000	2,000	1,500
Selenium	1.0	1.0	1.0	100	100	100
Silver	1.0	1.0	1.0	500	500	380
Thallium	1.0	1.0	1.0	700	111	0.78
Vanadium	24.1	21.2	23.3	2,400	2,400	390
Zinc	120	174	159	5,000	5,000	5,000
VOLATILE ORGANIC COMPOUNDS (mg/kg) METHOD 8260B:						
Acetone	0.017	NA	0.020	NS	670,000	61,000
4-Isopropyltoluene	0.005	NA	NA	NS	NS	NS
1,2,4-Trimethylbenzene	0.005	NA	0.009	NS	240	58
PETROLEUM HYDROCARBONS (mg/kg) METHOD M8015B:						
TPH-Diesel Range (C10 - C28)	135	NA	250	NS	1,000 (C4-C12)/ 10,000 (C12-C22)/ NS (≥C23)	10 (C4-C12)/ 10 (C12-C22)/ 500 (≥C23)
TPH-Motor Oil Range (C28 - C35)	147	NA	350	NS	NS (≥C23)	500 (≥C23)
MOISTURE CONTENT (%wt) Method 160.3M:						
Moisture Content	8.48	NA	8.93	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED						

Notes:

NA: Not Analyzed

NS: Not Specified

Left justified and shaded: Not detected. Value shown is Practical Quantitation Limit.

Right-Justified and no shading: Qualifiable result shown.

Only detected Organics are shown.

TABLE 26
SUNSHINE CANYON LANDFILL
GENERATOR: SOUTHERN CALIFORNIA EDISON / CRATER SUBSTATION, AGOURA HILLS
SOIL SAMPLING
ESTIMATED ANNUAL QUANTITY: 3 Cubic Yards

SAMPLE	AC1	AC2	HA1-0.5	HA1-0.2	HA1-COMP	S1	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	05/04/21	05/04/21	05/04/21	05/04/21	05/04/21	05/04/21	Level (mg/kg)	Limit	Limit
SAMPLED BY	Assett Laboratories	Assett Laboratories	Assett Laboratories	Assett Laboratories	Assett Laboratories	Assett Laboratories			
DATE ANALYZED	05/05/21	05/05/21	05/05/21	05/05/21	05/05/21	05/05/21			
METALS (mg/kg) METHOD 6010B/7000CAM:									
Antimony	5.0	5.0	NA	NA	4.99	5.0	500	380	30
Arsenic	2.5	2.5	NA	NA	5.58	5.42	500	500	12
Barium	146	53.3	NA	NA	91.8	85.2	10,000	10,000	5,200
Beryllium	2.5	2.5	NA	NA	2.49	2.5	75	75	16
Cadmium	2.5	2.5	NA	NA	7.59	7.03	100	100	1.7
Chromium	9.45	6.35	NA	NA	16.7	16.4	2,500	2,500	45
Cobalt	9.54	5.0	NA	NA	8.03	8.00	8,000	350	23
Copper	17.9	11.6	NA	NA	17.7	17.7	2,500	2,500	2,500
Lead	5.0	28.3	NA	NA	4.99	5.0	1,000	350	80
Mercury	0.205	0.199	NA	NA	0.200	0.199	20	20	9.4
Molybdenum	5.0	5.0	NA	NA	12.2	11.8	3,500	3,500	380
Nickel	17.5	20.2	NA	NA	25.4	25.0	2,000	2,000	1,500
Selenium	5.0	5.0	NA	NA	4.99	5.0	100	100	100
Silver	5.0	5.0	NA	NA	4.99	5.0	500	500	380
Thallium	5.0	5.0	NA	NA	4.99	5.0	700	111	0.78
Vanadium	33.9	41.9	NA	NA	54.1	58.9	2,400	2,400	390
Zinc	33.6	44.4	NA	NA	66.9	65.6	5,000	5,000	5,000
PETROLEUM HYDROCARBONS (mg/kg) METHOD M8015G/M8015D: NONE DETECTED									
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:									
Moisture Content	0.4893	0.6175	13.48	14.81	NA	16.64	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED									

Notes:

ND: Not Detected

NA: Not Analyzed

NS: Not Specified

*Threshold for average TPH for Disposal in a lined cell = 50,000 mg/kg

Left justified and shaded: Not detected. Value shown is Practical Quantitation Limit.

Right-Justified and no shading: Qualifiable result shown.

Only detected Organics are shown.

TABLE 20
 SUNSHINE CANYON LANDFILL
 GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
 SOIL SAMPLING
 ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	HA1-0.5'	HA1-2.0'	HA2-0.5'	HA2-2.0'	HA3-0.5'	HA3-2.0'	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	Level (mg/kg)	Limit	Limit
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/27-28/2020	10/27-28/2020	10/27-28/2020	10/27-28/2020	10/27-28/2020	10/27-28/2020			
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:									
Moisture Content	15.2	27.9	12.9	25.9	18.3	22.50	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED									

Notes:

- ND: Not Detected
- NA: Not Analyzed
- NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 20 (Cont'd)
 SUNSHINE CANYON LANDFILL
 GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
 SOIL SAMPLING
 ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	HA4-0.5'	HA4-2.0'	HA5-0.5'	HA5-2.0'	HA6-0.5'	HA6-2.0'	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	Level (mg/kg)	Limit	Limit
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/27-28/2020	10/27-28/2020	10/27-28/2020	10/27-28/2020	10/27-28/2020	10/27-28/2020			
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:									
Moisture Content	12.1	21.6	14.9	21.3	22.6	17.50	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED									

Notes:

- ND: Not Detected
- NA: Not Analyzed
- NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 20 (Cont'd)
 SUNSHINE CANYON LANDFILL
 GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
 SOIL SAMPLING
 ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	HA7-0.5'	HA7-2.0'	HA8-0.5'	HA8-2.0'	HA9-0.5'	HA9-2.0'	Hazardous Level (mg/kg)	Lined Cell Limit	Unrestricted Limit			
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20						
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental						
DATE ANALYZED	10/27-28/2020	10/27-28/2020	10/27-28/2020	10/27-28/2020	10/27-28/2020	10/27-28/2020						
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:												
Moisture Content	17.9	10.6	18.1	15.0	20.4	24.10	NS	50	NS			
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED												

Notes:

- ND: Not Detected
- NA: Not Analyzed
- NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 20 (Cont'd)
 SUNSHINE CANYON LANDFILL
 GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
 SOIL SAMPLING
 ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	HA10-0.5'	HA10-2.0'	HA11-0.5'	HA11-2.0'	HA11-0.5 Dup'	Hazardous Level (mg/kg)	Lined Cell Limit	Unrestricted Limit
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20			
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/27-28/2020	10/27-28/2020	10/27-28/2020	10/27-28/2020	10/27-28/2020			
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:								
Moisture Content	14.1	23.4	17.3	27.8	17.9	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED								

Notes:

ND: Not Detected

NA: Not Analyzed

NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 21
 SUNSHINE CANYON LANDFILL
 GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
 SOIL SAMPLING
 ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	C1	C2	C3	C4	C5	C6	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	Level (mg/kg)	Limit	Limit
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/28/20	10/28/20	10/28/20	10/28/20	10/28/20	10/28/20			
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:									
Moisture Content	1.35	1.43	0.890	1.03	1.46	1.53	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED									

Notes:

- ND: Not Detected
- NA: Not Analyzed
- NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 21 (Cont'd)
SUNSHINE CANYON LANDFILL
GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
SOIL SAMPLING
ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	C7	C8	C9	C10	C11	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	Level (mg/kg)	Limit	Limit
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/28/20	10/28/20	10/28/20	10/28/20	10/28/20			
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:								
Moisture Content	1.57	1.45	1.54	1.31	1.42	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED								

Notes:

ND: Not Detected

NA: Not Analyzed

NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 22
SUNSHINE CANYON LANDFILL
GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
SOIL SAMPLING
ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	HA1-COMP	HA2-COMP	HA3-COMP	HA4-COMP	HA5-COMP	HA6-COMP	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	Level (mg/kg)	Limit	Limit
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/27-28/20	10/27-28/20	10/27-28/20	10/27-28/20	10/27-28/20	10/27-28/20			
METALS (mg/kg) METHOD 6010B/7000CAM:									
Antimony	5.00	4.81	5.00	4.85	5.00	5.00	500	380	30
Arsenic	31.2	12.5	5.44	26.3	16.1	6.18	500	500	12
Barium	129	148	137	126	161	154	10,000	10,000	5,200
Beryllium	2.50	2.40	2.50	2.43	2.50	2.50	75	75	16
Cadmium	2.50	2.40	2.50	2.43	2.50	2.50	100	100	1.7
Chromium	17.9	20.3	19.6	19.0	22.4	22.9	2,500	2,500	45
Cobalt	8.80	10.1	9.66	9.42	10.8	11.1	8,000	350	23
Copper	31.6	44.7	37.8	34.6	33.5	33.0	2,500	2,500	2,500
Lead	8.65	23.0	16.2	13.7	7.83	8.09	1,000	350	80
Mercury	0.200	0.200	0.200	0.200	0.200	0.200	20	20	9.4
Molybdenum	5.00	4.81	5.00	4.85	5.00	5.00	3,500	3,500	380
Nickel	12.4	14.6	13.9	13.4	15.4	15.7	2,000	2,000	1,500
Selenium	5.00	4.81	5.00	4.85	5.00	5.00	100	100	100
Silver	5.00	4.81	5.00	4.85	5.00	5.00	500	500	380
Thallium	5.00	4.81	5.00	4.85	5.00	5.00	700	111	0.78
Vanadium	36.6	41.2	39.7	38.9	43.9	46.1	2,400	2,400	390
Zinc	58	796	224	110	62.9	67.0	5,000	5,000	5,000
PETROLEUM HYDROCARBONS (mg/kg) METHOD M8015G/M8015D: NONE DETECTED									
TRPH (C4-C12)	10.0	10.0	10.0	10.0	10.0	10.0	NS	1,000	10
*TPH Diesel (13-22)	10.0	10.0	10.0	10.0	10.0	10.0	NS	10,000	10
*TPH Heavy (23-40)	100.0	100.0	100.0	100.0	100.0	100.0	NS	NS	500
*TPH Diesel + Heavy (13-40)	100.0	100.0	100.0	100.0	100.0	100.0	NS	NS	500

Notes:

- ND: Not Detected
- NA: Not Analyzed
- NS: Not Specified

*Threshold for average TPH for Disposal in a lined cell = 50,000 mg/kg

Left justified and shaded: Not detected. Value shown is Practical Quantitation Limit.

Right-Justified and no shading: Qualifiable result shown.

Only detected Organics are shown.

TABLE 22 (Cont.d)
 SUNSHINE CANYON LANDFILL
 GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
 SOIL SAMPLING
 ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	HA7-COMP	HA8-COMP	HA9-COMP	HA10-COMP	HA11-COMP	Hazardous Level (mg/kg)	Lined Cell Limit	Unrestricted Limit
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20			
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/27-28/20	10/27-28/20	10/27-28/20	10/27-28 & 11/2/20	10/27-28/20			
METALS (mg/kg) METHOD 6010B/7000CAM:								
Antimony	5.00	5.00	5.00	4.95	5.00	500	380	30
Arsenic	29.4	5.68	13.0	52.9	8.65	500	500	12
Barium	151	129	136	144	148	10,000	10,000	5,200
Beryllium	2.50	2.50	2.50	2.48	2.50	75	75	16
Cadmium	2.50	2.50	2.50	2.48	2.50	100	100	1.7
Chromium	22.3	19.2	21.1	21.9	21.7	2,500	2,500	45
Cobalt	10.7	9.76	9.98	9.95	10.4	8,000	350	23
Copper	38.1	30.3	30.5	45.9	34.1	2,500	2,500	2,500
Lead	12.1	11.4	8.84	10.7	10.4	1,000	350	80
Mercury	0.198	0.200	0.200	0.200	0.200	20	20	9.4
Molybdenum	5.00	5.00	5.00	4.95	5.00	3,500	3,500	380
Nickel	15.2	13.5	14.4	14.4	15.0	2,000	2,000	1,500
Selenium	5.00	5.00	5.00	4.95	5.00	100	100	100
Silver	5.00	5.00	5.00	4.95	5.00	500	500	380
Thallium	5.00	5.00	5.00	4.95	5.00	700	111	0.78
Vanadium	44.3	41.0	41.6	42.1	42.1	2,400	2,400	390
Zinc	88.6	67.3	56.1	95.7	88.6	5,000	5,000	5,000
METALS (mg/L) METHOD 6010B-STLC:								
Arsenic	NA	NA	NA	3.03	NA	500	500	12
PETROLEUM HYDROCARBONS (mg/kg) METHOD M8015G/M8015D: NONE DETECTED								
TRPH (C4-C12)	10.0	10.0	10.0	10.0	10.0	NS	1,000	10
*TPH Diesel (13-22)	10.0	10.0	10.0	10.0	10.0	NS	10,000	10
*TPH Heavy (23-40)	100.0	100.0	100.0	100.0	100.0	NS	NS	500
*TPH Diesel + Heavy (13-40)	100.0	100.0	100.0	100.0	100.0	NS	NS	500

Notes:

ND: Not Detected

NA: Not Analyzed

NS: Not Specified

*Threshold for average TPH for Disposal in a lined cell = 50,000 mg/kg

Left justified and shaded: Not detected. Value shown is Practical Quantitation Limit.

Right-Justified and no shading: Qualifiable result shown.

Only detected Organics are shown.

TABLE 23
 SUNSHINE CANYON LANDFILL
 GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
 SOIL SAMPLING
 ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	HA1-0.5'	HA1-0.5'DUP	HA1-2.0'	HA2-0.5'	HA2-2.0'	HA3-0.5'	HA3-2.0'	Hazardous Level (mg/kg)	Lined Cell Limit	Unrestricted Limit
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20			
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/29/20	10/29/20	10/29/20	10/29/20	10/29/20	10/29/20	10/29/20			
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:										
Moisture Content	21.3	17.5	29.9	12.7	6.06	9.73	7.13	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED										

Notes:

ND: Not Detected

NA: Not Analyzed

NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 23 (Cont'd)
 SUNSHINE CANYON LANDFILL
 GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
 SOIL SAMPLING
 ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	HA4-0.5'	HA4-2.0'	HA5-0.5'	HA5-2.0'	HA6-0.5'	HA6-2.0'	Hazardous Level (mg/kg)	Lined Cell Limit	Unrestricted Limit			
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20						
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental						
DATE ANALYZED	10/29/20	10/29/20	10/29/20	10/29/20	10/29/20	10/29/20						
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:												
Moisture Content	9.83	8.41	1.40	9.19	4.46	3.94	NS	50	NS			
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED												

Notes:

- ND: Not Detected
- NA: Not Analyzed
- NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 23 (Cont'd)
 SUNSHINE CANYON LANDFILL
 GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
 SOIL SAMPLING
 ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	HA7-0.5'	HA7-2.0'	HA8-0.5'	HA8-2.0'	HA9-0.5'	HA9-2.0'	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	Level (mg/kg)	Limit	Limit
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/29/20	10/29/20	10/29/20	10/29/20	10/29/20	10/29/20			
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:									
Moisture Content	10.0	18.9	19.6	21.5	11.6	8.17	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED									

Notes:

- ND: Not Detected
- NA: Not Analyzed
- NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 24
 SUNSHINE CANYON LANDFILL
 GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
 SOIL SAMPLING
 ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	C1	C2	C3	C4	C5	C6	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	Level (mg/kg)	Limit	Limit
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/29/20	10/29/20	10/29/20	10/29/20	10/29/20	10/29/20			
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:									
Moisture Content	2.28	2.36	3.32	2.45	6.73	6.18	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED									

Notes:

- ND: Not Detected
- NA: Not Analyzed
- NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 24 (Cont'd)
SUNSHINE CANYON LANDFILL
GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
SOIL SAMPLING
ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	C7	C8	C9	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	10/26/20	10/26/20	10/26/20	Level (mg/kg)	Limit	Limit
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/29/20	10/29/20	10/29/20			
MOISTURE CONTENT (%wt) METHOD ASTM-D2216:						
Moisture Content	5.69	3.65	5.51	NS	50	NS
POLYCHLORINATED BIPHENYLS (PCBs) (mg/kg) METHOD 8082: NONE DETECTED						

Notes:

ND: Not Detected

NA: Not Analyzed

NS: Not Specified

Right-Justified and no shading: Qualifiable result shown.
 Only detected Organics are shown.

TABLE 25
SUNSHINE CANYON LANDFILL
GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
SOIL SAMPLING
ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	HA1-COMP	HA2-COMP	HA3-COMP	HA4-COMP	HA5-COMP	HA6-COMP	Hazardous	Lined Cell	Unrestricted	
DATE SAMPLED	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	10/26/20	Level (mg/kg)	Limit	Limit	
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental	American Enviromental				
DATE ANALYZED	10/27-28/20	10/27-28/20	10/27-28/20	10/27-28/20	10/27-28/20	10/27-28/20				
METALS (mg/kg) METHOD 6010B/7000CAM:										
Antimony	4.81	4.81	5.00	5.00	5.00	5.00	500	380	30	
Arsenic	31.2	65.2	18.7	64.2	5.75	3.31	500	500	12	
Barium	113	112	105	120	96.9	132	10,000	10,000	5,200	
Beryllium	2.40	2.45	2.50	2.50	2.50	2.50	75	75	16	
Cadmium	2.40	2.45	2.50	2.50	2.50	2.50	100	100	1.7	
Chromium	18.3	18.8	17.7	18.5	14.2	18.8	2,500	2,500	45	
Cobalt	9.11	9.24	9.04	9.25	7.72	9.37	8,000	350	23	
Copper	31.0	31.9	28.7	26.7	36.2	27.5	2,500	2,500	2,500	
Lead	14.40	12.3	9.00	5.00	20.5	9.90	1,000	350	80	
Mercury	0.200	0.200	0.200	0.200	0.200	0.200	20	20	9.4	
Molybdenum	4.81	4.90	5.00	5.00	5.00	5.00	3,500	3,500	380	
Nickel	12.9	13.3	12.5	12.9	10.1	13.0	2,000	2,000	1,500	
Selenium	4.81	4.90	5.00	5.00	5.00	5.00	100	100	100	
Silver	4.81	4.90	5.00	5.00	5.00	5.00	500	500	380	
Thallium	4.81	4.90	5.00	5.00	5.00	5.00	700	111	0.78	
Vanadium	37.8	38.8	37.5	38.5	31.2	38.6	2,400	2,400	390	
Zinc	104	110	85.4	51.8	80.3	57.2	5,000	5,000	5,000	
METALS (mg/L) METHOD 6010B-STLC:										
Arsenic	NA	3.88	NA	3.96	NA	NA	5.0	NS	NS	
PETROLEUM HYDROCARBONS (mg/kg) METHOD M8015G/M8015D: NONE DETECTED										

Notes:

- ND: Not Detected
- NA: Not Analyzed
- NS: Not Specified

*Threshold for average TPH for Disposal in a lined cell = 50,000 mg/kg

Left justified and shaded: Not detected. Value shown is Practical Quantitation Limit.

Right-Justified and no shading: Qualifiable result shown.

Only detected Organics are shown.

TABLE 25 (Cont'd)
SUNSHINE CANYON LANDFILL
GENERATOR: SOUTHERN CALIFORNIA EDISON / AMADOR SUBSTATION
SOIL SAMPLING
ESTIMATED ANNUAL QUANTITY: 100 Tons

SAMPLE	HA7-COMP	HA8-COMP	HA9-COMP	Hazardous	Lined Cell	Unrestricted
DATE SAMPLED	10/26/20	10/26/20	10/26/20	Level (mg/kg)	Limit	Limit
SAMPLED BY	American Enviromental	American Enviromental	American Enviromental			
DATE ANALYZED	10/28-29/20	10/28-29/20	10/28-29/20			
METALS (mg/kg) METHOD 6010B/7000CAM:						
Antimony	5.00	4.95	5.00	500	380	30
Arsenic	3.63	38.6	25.8	500	500	12
Barium	122.0	126	105	10,000	10,000	5,200
Beryllium	2.50	2.48	2.50	75	75	16
Cadmium	2.50	2.48	2.50	100	100	1.7
Chromium	18.4	18.6	18.1	2,500	2,500	45
Cobalt	9.13	9.28	8.65	8,000	350	23
Copper	25.9	26.7	27.1	2,500	2,500	2,500
Lead	13.4	7.7	11.80	1,000	350	80
Mercury	0.200	0.198	0.200	20	20	9.4
Molybdenum	5.00	4.95	5.00	3,500	3,500	380
Nickel	12.5	12.7	12.7	2,000	2,000	1,500
Selenium	5.00	4.95	5.00	100	100	100
Silver	5.00	4.95	5.00	500	500	380
Thallium	5.00	4.95	5.00	700	111	0.78
Vanadium	37.4	39.1	35.2	2,400	2,400	390
Zinc	63.3	55.5	72.9	5,000	5,000	5,000
PETROLEUM HYDROCARBONS (mg/kg) METHOD M8015G/M8015D: NONE DETECTED						

Notes:

ND: Not Detected

NA: Not Analyzed

NS: Not Specified

*Threshold for average TPH for Disposal in a lined cell = 50,000 mg/kg

Left justified and shaded: Not detected. Value shown is Practical Quantitation Limit.

Right-Justified and no shading: Qualitifiable result shown.

Only detected Organics are shown.

APPENDIX A

SAMPLING AND ANALYSIS PLAN

APPENDIX A

SAMPLING AND ANALYSIS PLAN FOR THE SUNSHINE CANYON LANDFILL

Water quality monitoring and sampling for the Sunshine Canyon Landfill (SCLF) located within the jurisdiction of the Los Angeles RWQCB Region was conducted by Geo-Logic Associates (GLA). Sampling and analyses were performed in general accordance with Monitoring and Report Program No. CI-2043 of Order R4-2008-0088 issued specifically for the SCLF. A brief summary of the protocols for sample collection is presented below.

Chemical analyses were performed by Eurofins Calscience., a state-certified laboratory. Groundwater, underdrain, leachate, and stormwater samples were analyzed for the list of parameters summarized in Table 1, which also present the laboratory analytical methods used and the sample frequency. Copies of the certificates of analyses and Chain-of-Custody records for the samples collected the current monitoring period are included in Appendix B.

GROUNDWATER SAMPLING

The sampling protocols listed below were generally followed during groundwater sampling operations:

- Upon arrival at the wellhead, each monitoring point was inspected for evidence of tampering and/or vandalism, and the well identification (I.D.) was recorded.
- With the exception of well DW-1, all of the groundwater monitoring wells at the SCLF that are currently sampled are equipped with dedicated bladder pumps. Well construction details including: well depth, depth of pump, well diameter, and top of casing elevation are summarized in Table 5.
- Well DW-1 is under artesian conditions. A drop tube has been installed in the well that allows water to discharge into sample containers under the pressure of water in the well.
- The water level was measured directly using a weighted water-level indicator (sounder) to an accuracy of 0.01 foot. Prior to measuring the water level, the sounder was decontaminated using a non-phosphate soap solution, followed by two rinses with deionized water. The wells were then sounded and the initial water level and the total depth of the well (if obtainable) were recorded on a Well Data Sheet.

Groundwater Sampling Using Low Flow Sampling Methods

- All wells at the SCLF that are equipped with bladder pumps were sampled using low flow purge and sample methods.
- A water level meter was used during low-flow purging to measure changes in water level to

permit operation of submersible pumps at discharge rates that minimized water level decline.

- Discharged water was routed through a sampling chamber equipped with probes for measuring dissolved oxygen, electrical conductivity, pH, temperature, ORP, and turbidity. When three consecutive readings of these field parameters had stabilized to within 10% of each other, with no discernible upward or downward trend, the water quality was determined to be stable and samples were collected.
- Samples were collected into approved pre-labeled containers provided by the laboratory, and each container was filled completely and immediately capped. Samples for VOC analysis were filled by pouring the sample down the sides of the container to minimize aeration, and these sample vials were capped with no airspace.
- Upon collection, samples were placed immediately in an ice-filled cooler for transport to a state-certified testing laboratory. Samples were kept chilled (at about 4°C) until delivery.
- A completed Chain-of-Custody form, detailing sample identification numbers, date and time of collection, requested analyses, and other project information accompanied each sample to the laboratory. The Chain-of-Custody and Sample Container/Analysis Request forms are provided in Appendix B.

LYSIMETER SAMPLING

The SCLF is equipped with two pan lysimeters, LY-6 and LY-7, that are located beneath leachate sumps in the lined portions of the landfill. Lysimeters are equipped with dedicated electric submersible pumps that are activated based on liquid levels in the pan. Water is pumped to a discharge line that conveys lysimeter liquids to an onsite water treatment facility. Sampling protocols are as follows:

- Upon arrival at each lysimeter, GLA inspected the discharge line to determine if water was actively being extracted.
- The lysimeter pumps are not equipped with flow controls, so water is transferred from the discharge line to a clean 5-gallon bucket. Field parameters are recorded from the bucket.
- Lysimeter liquids are transferred from the bucket into approved pre-labeled containers provided by the laboratory, and each container was filled completely and immediately capped. Samples for VOC analysis were filled by pouring the sample down the sides of the container to minimize aeration, and these sample vials were capped with no airspace.
- As with groundwater samples, lysimeter liquid samples were placed immediately in an ice-filled cooler for transport to a state-certified testing laboratory. Samples were kept chilled (at about 4°C) until delivery.

- A completed Chain-of-Custody form, detailing sample identification numbers, date and time of collection, requested analyses, and other project information accompanied each sample to the laboratory. The Chain-of-Custody and Sample Container/Analysis Request forms are provided in Appendix B.

SUBDRAIN AND EXTRACTION TRENCH SAMPLING

The SCLF is equipped with four subdrain sampling locations: Subdrain N, CC2-PER, CC2-3A, and CC2-5C and a groundwater extraction trench. Samples from CC2-PER, CC2-3A, and CC2-5C are composited in the field as one sample “Combined Subdrains”. Sample methods are as follows:

- Samples from Subdrain N and the groundwater extraction trench are collected at sampling ports near the inlet to the water treatment facility. Samples are collected by opening the port and directly filling each laboratory-supplied container.
- Subdrains CC2-3A and CC2-5C are equipped with electric submersible pumps that operate automatically based on liquid levels in the subdrain sumps. Water is discharged to a one-inch poly hose that connects to a two-inch HDPE pipeline that conveys liquids to the water treatment facility. Samples are collected by disconnecting the one-inch poly hose from the two-inch HDPE pipe and filling a clean five gallon bucket. Subdrain liquids are transferred from the bucket into laboratory-supplied containers.
- Subdrain CC2-PER is also equipped with electric submersible pumps that operates automatically based on liquid levels in the subdrain sump. Water is discharged to a two-inch camflex hose that transfers liquid into a 55-gallon carbon treatment unit, which then discharges to the water treatment facility. Samples are collected by disconnecting the camflex hose and filling a decontaminated five-gallon bucket. Field parameters are measured in the bucket, and then the subdrain liquid is transferred to laboratory-supplied containers.
- As with groundwater samples, all containers are completely filled, capped, labeled, and kept chilled at approximately 4°C in a laboratory-supplied cooler. All sampling is conducted under the same chain-of-custody protocol describe above.

LEACHATE SAMPLING

Leachate at the SCLF is monitored at “LR-2R” and “Deep Leachate”.

- Deep Leachate samples are collected from a sample port before leachate reaches the above ground storage tank farm. The port is opened to allow liquids to fill laboratory-supplied sample containers.
- Location LR-2R is sampled with a new, disposable bailer through a riser connected to the leachate sump. Liquids were transferred from the bailer into laboratory-supplied

containers.

- A representative sample was collected and analyzed in the field for EC, odor, ORP, pH, temperature, turbidity, and sheen and recorded on a Well Data Sheet.
- Sample collection, preservation, and Chain-of-Custody procedures described above for groundwater were also adhered to for leachate sample collection.

QUALITY ASSURANCE/QUALITY CONTROL SAMPLING

Quality assurance/quality control (QA/QC) sampling is performed using trip blanks, field blanks, equipment blanks (for non-dedicated equipment), and duplicate samples. For field blanks and equipment blanks, laboratory supplied water is used to collect the sample. In addition, to these field samples, the QA/QC program also included laboratory method blank analyses. Field QA/QC samples were analyzed only for volatile organic compounds EPA Test Method 8260. Laboratory method blanks were conducted for all constituents that were monitored during the monitoring period.

FIELD EQUIPMENT CALIBRATION

Proper maintenance, calibration, and operation of each field instrument will be the responsibility of the field personnel and the instrument technicians assigned to the project. All instruments and equipment used during the program will be maintained, calibrated, and operated according to the manufacturers' guidelines and recommendations.

Field equipment will be calibrated prior to use in the field as appropriate. The calibration procedures will follow standard manufacturers' instructions to ensure that the equipment is functioning within established tolerances and as required by the project. A record of field calibration of analytical instruments will be maintained in the calibration logbook by field personnel. Copies of the instrument manuals and other equipment calibration records (e.g., thermometers, sounders) will be maintained. Any notes on unusual results, changing of standards, battery charging, and operation and maintenance of the field equipment will be included in the calibration logbook.

All instruments are to be stored, transported, and handled with care to preserve equipment accuracy. Damaged instruments will be taken out of service immediately and not used again until a qualified technician repairs and recalibrates the instruments.

Calibration Procedures

Equipment calibration is performed in accordance with the manufacturer's instructions, and calibration checks will be performed each day prior to the start of work. Calibration of rental equipment will be performed by a qualified technician prior to shipment of the equipment.

Calibration standards will be used once. Spent calibration liquids will be placed in plastic bottles and transported off-site for disposal. A brief summary of the calibration procedures for field measurement equipment is provided below:

- pH: Calibration for pH is performed prior to commencement of sampling activities, using standard buffer solutions having pH values of 4, 7, and 10. Calibration checks for pH values using buffer solutions of 4, 7, and 10 will be performed daily. If the reading varies more than 0.10 of a unit between calibration checks, the meter will be recalibrated.
- Conductivity: Calibration for conductivity is performed prior to commencement of sampling activities, using potassium chloride standard solutions with conductivity values of 1,000 and 10,000 microsiemens/cm. The meter must read within one percent of full-scale to be considered calibrated. Calibration checks for conductivity will be performed daily.
- Turbidity Meter: Turbidity range calibration is performed prior to initiation of sampling activities, using turbidity gel standards of 0, 4.4, 45, and 483 NTUs. The meter is also checked daily during the sampling period with the standard most representative of the anticipated turbidity of the purged groundwater (typically 0 NTUs to 10 NTUs). If the reading varies by more than one unit between calibration checks, the meter will be recalibrated. Multiple physical conditions can cause variations in readings, including bubbles in the sampled water, wet or dirty sample containers, a wet or dirty lens, a wet or dirty optical sensor, or leakage of incidental light into the sample chamber.
- Multiple Sensor Meter (pH, Dissolved Oxygen, Conductivity, Temperature, Turbidity): A multiple sensor meter may be used for multiple parameter measurements during sampling. Calibration is performed prior to initiation of sampling activities, using manufacturer auto-calibration solution. If any of the readings are outside of the manufacturers specifications, the meter will be recalibrated for the parameter outside of the calibration range. Calibration checks will be performed daily.

Equipment not listed herein will be calibrated according to manufacturers' recommendations and/or generally accepted practice. Calibration procedures will be documented for the project file. Instruments for which calibration cannot be easily checked will be either tested against another instrument of a similar type, or will be returned to the manufacturer for appropriate calibration. If tested against another instrument capable of making the same measurements, variation between instruments must not exceed five percent. If readings vary more than five percent, the instrument will be returned to the manufacturer for calibration.

Scheduled periodic calibration of testing equipment will not relieve field personnel of the responsibility of employing properly functioning equipment. If equipment malfunction is suspected, the device will be removed from service, tagged so that it is not inadvertently used, and the appropriate personnel notified so that re-calibration can be performed or a substitute piece of equipment can be obtained.

Equipment Maintenance

Maintenance responsibilities for field equipment are coordinated through an instrument technician who is responsible for ensuring that available equipment and instrumentation are ready for use, and that returned equipment is inspected, serviced, and returned to available inventory in a timely manner. Maintenance during use is the responsibility of the field team using the equipment. Calibration logbooks contain information on instrument maintenance, calibration, and repair. A separate logbook is maintained for each instrument. The paperwork will include a detailed listing of the item that was cleaned/replaced, and the make/model/serial number for the particular piece of equipment.

APPENDIX B

FIELD SAMPLE COLLECTION LOGS AND LABORATORY ANALYTICAL DATA REPORTS

17461 Denton Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Request

Chain of Custody Record

081258

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: DW NPDES RCRA Other:

Company Name: <i>Gold A Reproductive</i>		Project Manager: <i>VC 10 Addition</i>		Site Contact: <i>J. Mills</i>		Date: <i>2/23/21</i>		COC No: _____ of _____ COCs	
Address: <i>11415 S. Riverbend Ct</i>		Tel/Fax: <i>952-152-1025</i>		Lab Contact: <i>Dossina</i>		Carrier: <i>ATB</i>		Sampler: <i>B. Salinas</i>	
City/State/Zip: <i>CA 92027</i>		Analysis Turnaround Time		TAT if different from Below		For Lab Use Only:		Walk-in Client:	
Phone: <i>855-451-1135</i>		<input type="checkbox"/> CALENDAR DAYS		<input type="checkbox"/> WORKING DAYS		Lab Sampling:		Job / SDG No.:	
Fax: <i>855-451-1087</i>		1 day		2 days		1 week		2 weeks	
Project Name: <i>Reproductive Services Program</i>		<input type="checkbox"/> 1 day		<input type="checkbox"/> 2 days		<input type="checkbox"/> 1 week		<input type="checkbox"/> 2 weeks	
Site: <i>Scavenger Spa Landfill</i>		<input type="checkbox"/> 1 day		<input type="checkbox"/> 2 days		<input type="checkbox"/> 1 week		<input type="checkbox"/> 2 weeks	
P O #:		<input type="checkbox"/> 1 day		<input type="checkbox"/> 2 days		<input type="checkbox"/> 1 week		<input type="checkbox"/> 2 weeks	

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS/MSD (Y/N)	
						Y	N	Y	N
<i>DIV-1CA</i>	<i>2/23/21</i>	<i>0840</i>	<i>G</i>	<i>AW</i>	<i>1</i>			<i>X</i>	
<i>DIV-1CB</i>		<i>0844</i>			<i>1</i>			<i>X</i>	
<i>DIV-5CA</i>		<i>0948</i>			<i>3</i>			<i>X</i>	
<i>DIV-5CB</i>		<i>0952</i>			<i>3</i>			<i>X</i>	
<i>FIELD Blank</i>					<i>2</i>			<i>X</i>	
<i>TRP Blank</i>					<i>2</i>			<i>X</i>	

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____

Possible Hazard Identification: _____

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: _____

Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposed by Lab Archive for _____ Months

Cooler Temp. (°C): Obs'd: _____ Cor'd: _____ Therm ID No.: _____

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Received by: <i>[Signature]</i>	Received in Laboratory by: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Company: <i>Med-105C</i>	Date/Time: <i>2-23-21</i>	Company: <i>B-T</i>
Relinquished by: _____	Company: _____	Date/Time: _____	Company: _____

** Re-test **

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Gen **Project No.:** SO20-1006
Well I.D.: DW-1 **Sampling Date:** 2/23/21
Collected By: PS **Purge start Time:** 0818
Casing Diameter (inches): 4 **Purge Stop time:**
Starting Water Level: ROC **Sampling (Well Recovery) Time:** (A) 0840 (B) 0844
Total Depth (feet): / **Ending Water Level (feet):** /
Water column (feet): / **Total Purged (gallons):** /
Screen Length (feet): / **Duplicate Sample:** YES NO

Sample Method: Micro Purge Low Flow
Horiba Model S/N: RFS5094H

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
<u>—</u>	<u>17.65</u>	<u>—</u>	<u>7.53</u>	<u>4.42</u>	<u>4.5</u>	<u>0.77</u>	<u>17.64</u>	<u>-121</u>

Purge Sampling Rates: ROC samples from the dedicated discharge tube, clear water with an odor.

Well condition: OK

Additional Info/Comments: Resample for TDS A/B, Sunny cool

Name: Ph. Salinas **Signature:** Ph. Salinas

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine cym Well ID: DW-1 Date: 2-23-21

Access:

Accessibility: Good: Fair: _____ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: _____ No:

Presence of depressions or standing water around well: Yes: _____ No:

Remarks: Soil & debris next to well,

Concrete Pad:

Integrity: Good: Inadequate: _____

Presence of depressions or standing water around well: Yes: _____ No:

Remarks:

Protective Outer Casing: Material: metal

Condition of Protective Casing: Good: _____ Damaged: corroded

Condition of Locking Cap: Good: Damaged: _____

Condition of Lock: Good: _____ Damaged: _____

Condition of Weepholes: Good: Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: Damaged: _____

Condition of Riser Cap: Good: Damaged: _____

Measurement reference point: Yes: No: _____

Remarks:

Dedicated Pump: Type: Drop tube

Condition: Good: N/A Damaged: N/A Missing: N/A

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: Brent Salinas GW Manager 2-23-21

Signed _____ Title _____ Date _____

* Retest *

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine
 Well I.D.: DW-5
 Collected By: BS
 Casing Diameter (inches): 4
 Starting Water Level: 13.52
 Total Depth (feet): _____
 Water column (feet): _____
 Screen Length (feet): _____
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: R855U9M11

Project No.: 2020-1006
 Sampling Date: 2-23-22
 Purge start Time: 0919
 Purge Stop time: 0942
 Sampling (Well Recovery) Time: (A) 0948 (B) 0952
 Ending Water Level (feet): 16.05
 Total Purged (gallons): 2
 Duplicate Sample: YES NO

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0924	1/2	13.88	6.99	1.68	3.7	4.63	19.20	-15
0927	3/4	14.31	6.96	1.67	5.6	1.60	19.29	-44
0930	1	14.91	6.97	1.67	4.2	←	19.64	-97
0933	1 1/4	15.36	6.91	1.67	5.2	←	19.73	-122
0936	1 1/2	15.74	6.81	1.66	5.6	←	19.80	-128
0939	1 3/4	15.98	6.82	1.66	5.3	←	19.76	-136
0942	2	16.32	6.81	1.66	5.6	←	19.81	-142

Purge Sampling Rates: PSF set to 35 + R=30 / 10 min

Blanked tanks here

Well condition: OK

* Retest for VOC's toluene only.

Additional Info/Comments: Sunny, cool, light winds

Name: R. Salinas Signature: [Signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Gen. Well ID: DW-5 Date: 2/23/21

Access:
Accessibility: Good: Fair: _____ Poor: _____
Vicinity of well clear of weeds and/or debris: Yes: No: _____
Presence of depressions or standing water around well: Yes: _____ No:
Remarks:

Concrete Pad:
Integrity: Good: _____ Inadequate: _____
Presence of depressions or standing water around well: Yes: _____ No:
Remarks: Concrete pad is not visible

Protective Outer Casing: Material: Metal
Condition of Protective Casing: Good: Damaged: _____
Condition of Locking Cap: Good: Damaged: _____
Condition of Lock: Good: Damaged: _____
Condition of Weepholes: Good: Damaged: _____
Remarks:

Well Riser: Material: PVC
Condition of Riser: Good: Damaged: _____
Condition of Riser Cap: Good: Damaged: _____
Measurement reference point: Yes: No: _____
Remarks:

Dedicated Pump: Type: Blender
Condition: Good: Damaged: _____ Missing: _____
Pumping Rate (gpm): N/A Current (Hz): N/A
Remarks:

Field Certification: [Signature] Signed _____ Title AW Manager Date 2/23/22

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Spa PROJECT NAME / NUMBER 5020, 1976

Instrument Make/Model # RS8899411

Date/Time	pH	Electrical Conductivity (µMhos/cm) (4.49 mg/Kg)	Turbidity (NTU) (0)	DO (mg/L or %)	Guidance Remarks	Comments
<u>2/23/08</u> <u>0750</u>	<u>5.02</u>	<u>4.55</u>	<u>0</u>	<u>10.41</u>		
Pre. Cal	<u>4.00</u>	<u>4.50</u>	<u>0</u>	<u>9.64</u>		
Calibration Successful? (Y/N)	<u>Yes</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>	enter YES or NO	
Satisfies Protocol?	<u>Yes</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>	Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	<u>Red</u>	<u>AD</u>			Signature or initials	
Physical Condition of Unit				<u>Good</u>		

**GROUNDWATER MONITORING PROGRAM
WATER LEVEL SURVEY RECORD SHEET**

SITE NAME: Sunshine Canyon
 DATE: 03-04-2021
 PROJECT NUMBER: S020, 1006
 WATER LEVEL MAKE/MODEL: QED end Solinst 101
 FIELD PERSONNEL: B. Salinas, M. Campbell

WELL ID	CONSTRUCTION TOTAL DEPTH (TD)	ACTUAL TOTAL DEPTH (TD)	DEPTH TO WATER (DTW)	COMMENTS
MW-1			16.03	
MW-2A			33.73	
MW-2B			17.66	
MW-5			18.62	
MW-6			16.33	
MW-8			17.55	
MW-9			22.36	
MW-13R			17.71	
MW-14			14.07	
DW-1			TOC	
DW-2			25.55	
DW-3			157.04	
DW-4			32.28	
DW-5			13.55	
CM-5R			224.88	
CM-9R3			12.43	
CM-10R			49.13	
CM-11R			20.46	
PZ-1			94.38	
PZ-2			120.76	
PZ-3			223.94	
PZ-4			110.37	
EW-2			23.08	
EW-3			17.46	
EW-4			17.11	
OM-3			15.48	

REMARKS:

SIGNATURE: Mike Campbell Mike Campbell

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: <u>Sunshine Cyp</u>	Project No.: <u>5020.1006</u>
Well I.D.: <u>CM-GR3</u>	Sampling Date: <u>3-9-21</u>
Collected By: <u>ML</u>	Purge start Time: <u>7:36</u>
Casing Diameter (inches): <u>4</u>	Purge Stop time: <u>7:53</u>
Starting Water Level: <u>12.43</u>	Sampling (Well Recovery) Time: <u>8:03</u>
Total Depth (feet): <u>28.10 23.35</u>	Ending Water Level (feet): <u>13.68</u>
Water column (feet): <u>15.67</u>	Total Purged (gallons): <u>2.54</u>
Screen Length (feet): _____	Duplicate Sample: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Sample Method: <u>Micro Purge</u> <input checked="" type="checkbox"/> Low Flow <input type="checkbox"/>	
Horiba Model S/N: <u>U-52/45412B00</u>	

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
7:42	1.0	13.34	6.27	3.99	287.0	1.50	16.76	-81
7:45	1.5	13.44	6.25	3.96	141.0	1.38	16.90	-77
7:47	1.75	13.49	6.24	3.94	86.1	1.31	16.88	-71
7:49	2.0	13.53	6.23	3.94	76.2	1.28	16.91	-70
7:51	2.25	13.58	6.23	3.93	69.6	1.27	16.96	-68
7:53	2.50	13.61	6.22	3.93	59.4	1.25	17.00	-67

Purge Sampling Rates: 25 psi refill 30 discharge 5
water very muddy

Well condition: OK

Additional Info/Comments: Partly cloudy, cold, well was buried 4.07 feet
SCE removed soil to expose net
Tagged bottom at 28.10

Name: Mike Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility:	<u>Sunshine Cyn</u>	Well ID:	<u>CM-9R3</u>	Date:	<u>3-9-21</u>
Access:	Accessibility: Good: _____ Fair: <input checked="" type="checkbox"/> Poor: _____	Vicinity of well clear of weeds and/or debris: Yes: _____ No: <input checked="" type="checkbox"/>			
	Presence of depressions or standing water around well: Yes: _____ No: <input checked="" type="checkbox"/>	Remarks: <u>Vegetation around well and path to the well well was burrned SCE removed approx 40' of soil to expose well</u>			
Concrete Pad:	Integrity: Good: _____ Inadequate: <input checked="" type="checkbox"/>	Presence of depressions or standing water around well: Yes: _____ No: <input checked="" type="checkbox"/>			
	Remarks: <u>Concrete pad is burrned</u>				
Protective Outer Casing:	Material: <u>metal</u>	Condition of Protective Casing: Good: <input checked="" type="checkbox"/> Damaged: _____			
	Condition of Locking Cap: Good: _____ Damaged: <input checked="" type="checkbox"/>	Condition of Lock: Good: <input checked="" type="checkbox"/> Damaged: _____			
	Condition of Weepholes: Good: _____ Damaged: _____	Remarks: <u>well lid damaged well not secure</u>			
Well Riser:	Material: <u>PVC</u>	Condition of Riser: Good: <input checked="" type="checkbox"/> Damaged: _____			
	Condition of Riser Cap: Good: <input checked="" type="checkbox"/> Damaged: _____	Measurement reference point: Yes: <input checked="" type="checkbox"/> No: _____			
	Remarks: _____				
Dedicated Pump:	Type: <u>Bladder</u>	Condition: Good: <input checked="" type="checkbox"/> Damaged: _____ Missing: _____			
	Pumping Rate (gpm): <u>NA</u>	Current (Hz): <u>NA</u>			
	Remarks: _____				

Field Certification: [Signature] Signed Field Tech Title 3-9-21 Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Cyn Project No.: 5020-1006
 Well I.D.: CM-10R Sampling Date: 3-4-21
 Collected By: mc Purge start Time: 9:30
 Casing Diameter (inches): 4 Purge Stop time: 9:50
 Starting Water Level: 49.13 Sampling (Well Recovery) Time: 10:00
 Total Depth (feet): 110.90 Ending Water Level (feet): 49.55
 Water column (feet): 61.77 Total Purged (gallons): 2.57
 Screen Length (feet): _____ Duplicate Sample: YES NO
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: U-52/w54w80p

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
9:38	1.0	49.44	6.65	2.77	0.0	1.62	20.07	-144
9:42	1.5	49.51	6.64	2.78	0.0	1.47	20.24	-136
9:44	1.75	49.54	6.64	2.78	0.0	1.40	20.30	-136
9:46	2.0	49.55	6.64	2.78	0.0	1.38	20.37	-136
9:48	2.25	11	6.63	2.76	0.0	1.35	20.41	-137
9:50	2.50	1	6.63	2.76	0.0	1.34	20.45	-138

Purge Sampling Rates: 50 psi refill 40 discharge 12
water is clear with a strong odor

Well condition: OK

Additional Info/Comments: clear, mild breeze

Name: Mike Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Sunshine Cyn</u>		Well ID: <u>CM-10R</u>		Date: <u>3-4-21</u>	
Access:					
Accessibility:		Good: <u>✓</u>	Fair: _____	Poor: _____	
Vicinity of well clear of weeds and/or debris:				Yes: <u>✓</u>	No: _____
Presence of depressions or standing water around well:				Yes: _____	No: <u>✓</u>
Remarks:					
Concrete Pad:					
Integrity:		Good: <u>✓</u>	Inadequate: _____		
Presence of depressions or standing water around well:				Yes: _____	No: <u>✓</u>
Remarks:					
Protective Outer Casing:		Material: <u>metal</u>			
Condition of Protective Casing:		Good: <u>✓</u>	Damaged: _____		
Condition of Locking Cap:		Good: <u>✓</u>	Damaged: _____		
Condition of Lock:		Good: <u>✓</u>	Damaged: _____		
Condition of Weepholes:		Good: <u>✓</u>	Damaged: _____		
Remarks:					
Well Riser:		Material: <u>PVC</u>			
Condition of Riser:		Good: <u>✓</u>	Damaged: _____		
Condition of Riser Cap:		Good: <u>✓</u>	Damaged: _____		
Measurement reference point:		Yes: <u>✓</u>	No: _____		
Remarks:					
Dedicated Pump:		Type: <u>Bladder</u>			
Condition:		Good: <u>✓</u>	Damaged: _____	Missing: _____	
Pumping Rate (gpm):		<u>NA</u>	Current (Hz):		<u>NA</u>
Remarks:					

Field Certification: Mark Campbell Signed Environmental Tech Title 3-4-21 Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Cyn Project No.: 5020.1006
 Well I.D.: CM-11R ^{mv} Sampling Date: 3-4-21
 Collected By: Mike Mc Purge start Time: 7:55
 Casing Diameter (inches): 4 Purge Stop time: 8:43
 Starting Water Level: 20.46 Sampling (Well Recovery) Time: 9:00
 Total Depth (feet): 30.70 Ending Water Level (feet): 21.37
 Water column (feet): 10.24 Total Purged (gallons): 2.0
 Screen Length (feet): _____ Duplicate Sample: YES NO
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: U.52/w51/w600 Blanks taken at this well

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
8:08	.5	20.92	6.04	4.24	0.0	1.83	15.12	60
8:20	1.0	21.07	5.91	4.01	0.0	1.52	15.24	82
8:26	1.25	21.15	5.86	3.95	0.0	1.45	15.28	91
8:31	1.5	21.24	5.81	3.90	0.0	1.40	15.34	100
8:38	1.75	21.31	5.78	3.88	0.0	1.38	15.35	105
8:43	2.0	21.37	5.75	3.85	0.0	1.36	15.37	109

Purge Sampling Rates: 30 psi refill 25 discharge 6

Well condition: OK
 Heavy vegetation around the well requires 4x4 to get to the well
 Additional Info/Comments: 0' clear, mild, breezy

Name: Mike Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Sunshine Cyn</u>		Well ID: <u>CM-11R</u>		Date: <u>3-4-21</u>	
Access:					
Accessibility:		Good: _____	Fair: <u>✓</u>	Poor: _____	
Vicinity of well clear of weeds and/or debris:				Yes: _____	No: <u>✓</u>
Presence of depressions or standing water around well:				Yes: _____	No: <u>✓</u>
Remarks: <u>Required 4x4 to get to the well and backup drainage channel, vegetation in vicinity of the well</u>					
Concrete Pad:					
Integrity:		Good: <u>✓</u>	Inadequate: _____		
Presence of depressions or standing water around well:				Yes: _____	No: _____
Remarks: <u>Half of the concrete pad is buried</u>					
Protective Outer Casing:		Material: <u>metal</u>			
Condition of Protective Casing:		Good: <u>✓</u>	Damaged: _____		
Condition of Locking Cap:		Good: <u>✓</u>	Damaged: _____		
Condition of Lock:		Good: <u>✓</u>	Damaged: _____		
Condition of Weepholes:		Good: <u>✓</u>	Damaged: _____		
Remarks:					
Well Riser:		Material: <u>PVC</u>			
Condition of Riser:		Good: <u>✓</u>	Damaged: _____		
Condition of Riser Cap:		Good: <u>✓</u>	Damaged: _____		
Measurement reference point:		Yes: <u>✓</u>	No: _____		
Remarks:					
Dedicated Pump:		Type: <u>Bladder</u>			
Condition:		Good: <u>✓</u>	Damaged: _____	Missing: _____	
Pumping Rate (gpm): <u>NA</u>		Current (Hz): <u>NA</u>			
Remarks:					

Field Certification: Mule Cayle Signed Field Tech Title 3-4-21 Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Cyn Project No.: SO20.1006
 Well I.D.: MW-1 Sampling Date: 3-10-21 3-10-21
 Collected By: ML Purge start Time: 6:59
 Casing Diameter (inches): 4 Purge Stop time: 7:19
 Starting Water Level: 16.04 Sampling (Well Recovery) Time: ~~16:11~~ 7:30
 Total Depth (feet): 28.86 Ending Water Level (feet): 16.11
 Water column (feet): 12.82 Total Purged (gallons): 2.5
 Screen Length (feet): _____ Duplicate Sample: YES NO
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: U-52/WSY1WB0P Blank, take at this well

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
7:07	1.0	16:08	6.50	3.04	6.1	1.00	18.92	-117
7:11	1.5	16:10	6.53	3.05	5.6	.92	19.04	-123
7:13	1.75	16:11	6.54	3.04	5.0	.87	19.12	-125
7:15	2.0	11	6.55	3.04	5.1	.82	19.17	-134
7:17	2.25	4	6.56	3.04	4.6	.80	19.19	-136
7:19	2.50	4	6.56	3.04	4.0	.79	19.17	-137

Purge Sampling Rates: 20 psi refill 30 discharge 12
water contains yellowish ~~blue~~ brown color with an odor
 Well condition: OK

Additional Info/Comments: cloudy, cold, rain

Name: Mike Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Sunshine cya</u>	Well ID: <u>MW-1</u>	Date: <u>3-10-21</u>
Access:		
Accessibility: Good: <input checked="" type="checkbox"/>	Fair: <input type="checkbox"/>	Poor: <input type="checkbox"/>
Vicinity of well clear of weeds and/or debris: Yes: <input checked="" type="checkbox"/>	No: <input type="checkbox"/>	
Presence of depressions or standing water around well: Yes: <input type="checkbox"/>	No: <input checked="" type="checkbox"/>	
Remarks:		
Concrete Pad:		
Integrity: Good: <input type="checkbox"/>	Inadequate: <input checked="" type="checkbox"/>	
Presence of depressions or standing water around well: Yes: <input type="checkbox"/>	No: <input type="checkbox"/>	
Remarks: <u>Concrete pad is not visible</u>		
Protective Outer Casing: Material: <u>metal</u>		
Condition of Protective Casing: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	
Condition of Locking Cap: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	
Condition of Lock: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	
Condition of Weepholes: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	
Remarks:		
Well Riser: Material: <u>PVC</u>		
Condition of Riser: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	
Condition of Riser Cap: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	
Measurement reference point: Yes: <input checked="" type="checkbox"/>	No: <input type="checkbox"/>	
Remarks:		
Dedicated Pump: Type: <u>Bladder</u>		
Condition: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	Missing: <input type="checkbox"/>
Pumping Rate (gpm): <u>NA</u>	Current (Hz): <u>NA</u>	
Remarks:		

Field Certification: Mike Campbell Signed Field Tech Title 3-10-21 Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Canyon Project No.: SO201006
 Well I.D.: MW-5 Sampling Date: 3-9-21
 Collected By: CV Purge start Time: 1147
 Casing Diameter (inches): 2 Purge Stop time: 1202
 Starting Water Level: 18.62 Sampling (Well Recovery) Time: 1272
 Total Depth (feet): 25.65 Ending Water Level (feet): 19.03
 Water column (feet): 7.03 Total Purged (gallons): 2 1/2
 Screen Length (feet): — Duplicate Sample: YES NO
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: 4-52 WGGPGRS * Blanks Taken Here

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1154	1	19.03	7.32	3.64	15.5	2.13	22.14	-115
1157	1 1/2	19.03	7.30	3.61	15.0	2.13	22.10	-122
1158	1 3/4	11	7.28	3.61	14.8	2.10	22.28	-123
1200	2	11	7.28	3.59	14.7	2.02	22.20	-124
1201	2 1/4	11	7.28	3.60	14.6	2.00	22.25	-125
1202	2 1/2	11	7.28	3.60	14.5	1.98	22.27	-126

Purge Sampling Rates: 20 PSI Refill-30 Dis-11

Well condition: OK, Fallen Branches next to well, had to carry equipment and bottles due to open trench from ongoing construction on site.

Additional Info/Comments: cloudy, cool, windy

Name: Christian Valenzuela Signature: [Signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canal Well ID: MW-5 Date: 3-9-21

Access:

Accessibility: Good: Fair: Poor:

Vicinity of well clear of weeds and/or debris: Yes: No:

Presence of depressions or standing water around well: Yes: No:

Remarks: Had to carry all Equipment due to construction at Entrance, Tree Branches and ^{Broken} Concrete and Asphalt ^{around well}

Concrete Pad:

Integrity: Good: Inadequate: N/A

Presence of depressions or standing water around well: Yes: No:

Remarks: concrete pad not visible

Protective Outer Casing: Material: metal

Condition of Protective Casing: Good: Damaged:

Condition of Locking Cap: Good: Damaged:

Condition of Lock: Good: Damaged:

Condition of Weepholes: Good: Damaged:

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: Damaged:

Condition of Riser Cap: Good: Damaged:

Measurement reference point: Yes: No:

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: Damaged: Missing:

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: Christian White Field Tech 3-9-21

Signed _____ Title _____ Date _____

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Cyn. Project No.: S020-1006
 Well I.D.: MW-6 Sampling Date: 3-8-21
 Collected By: MC Purge start Time: 8:54
 Casing Diameter (inches): 2 Purge Stop time: 9:41
 Starting Water Level: 16.33 Sampling (Well Recovery) Time: 10:00
 Total Depth (feet): 20.52 Ending Water Level (feet): 17.20
 Water column (feet): 4.19 Total Purged (gallons): 1.751
 Screen Length (feet): _____ Duplicate Sample: YES NO
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: U-52/W5414B01

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
9:09	.5	16.88	6.66	3.56	3.1	2.05	21.05	-290
9:21	1.0	17.17	6.65	3.41	1.4	.96	21.23	-312
9:28	1.25	17.20	6.63	3.43	0.0	.80	21.41	-328
9:35	1.50	17.21	6.61	3.39	0.0	.73	21.46	-332
9:41	1.75	17.22	6.60	3.37	0.0	.70	21.49	-335

Purge Sampling Rates: 25 psi ref. 11 30 discharge
water is mostly clear with a strong odor and a blackish tint

Well condition: OK had to carry sample bottles and equipment down slope and push to

Additional Info/Comments: partly cloudy, mild, slight breeze access to well

Name: Mike Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Cyn Well ID: MW-6 Date: 3-8-21

Access:
Accessibility: Good: _____ Fair: ✓ Poor: _____
Vicinity of well clear of weeds and/or debris: Yes: ✓ No: _____
Presence of depressions or standing water around well: Yes: _____ No: ✓
Remarks: Carried sample containers and sampling equipment down a slope and long dirt (and vegetation) to the well to sample

Concrete Pad:
Integrity: Good: ✓ Inadequate: _____
Presence of depressions or standing water around well: Yes: _____ No: ✓
Remarks:

Protective Outer Casing: Material: metal
Condition of Protective Casing: Good: _____ Damaged: _____
Condition of Locking Cap: Good: ✓ Damaged: _____
Condition of Lock: Good: ✓ Damaged: _____
Condition of Weepholes: Good: ✓ Damaged: _____
Remarks:

Well Riser: Material: PVC
Condition of Riser: Good: ✓ Damaged: _____
Condition of Riser Cap: Good: ✓ Damaged: _____
Measurement reference point: Yes: ✓ No: _____
Remarks:

Dedicated Pump: Type: Bladder
Condition: Good: ✓ Damaged: _____ Missing: _____
Pumping Rate (gpm): NA Current (Hz): NA
Remarks:

Field Certification: Mike Campbell Field Tech 3-8-21
Signed Title Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name:	<u>Sunshine Canyon</u>	Project No.:	<u>5020-1006</u>
Well I.D.:	<u>MW-13R</u>	Sampling Date:	<u>3-9-21</u>
Collected By:	<u>CV</u>	Purge start Time:	<u>0924</u>
Casing Diameter (inches):	<u>4</u>	Purge Stop time:	<u>1009</u>
Starting Water Level:	<u>17.72</u>	Sampling (Well Recovery) Time:	<u>1034</u>
Total Depth (feet):	<u>28.47</u>	Ending Water Level (feet):	<u>18.17</u>
Water column (feet):	<u>10.75</u>	Total Purged (gallons):	<u>1 3/4</u>
Screen Length (feet):	<u> </u>	Duplicate Sample:	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Sample Method:	<input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Low Flow		
Horiba Model S/N:	<u>4-52 W00P8G-R5</u>		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0939	1/2	17.99	7.84	1.99	0.0	10.51	21.67	-360
0945	3/4	18.02	7.83	2.00	0.0	8.52	21.90	-364
0951	1	18.07	7.83	2.00	0.0	7.31	22.24	-366
0957	1 1/4	18.12	7.82	2.00	0.0	7.14	22.23	-368
1003	1 1/2	18.14	7.82	1.99	0.0	7.08	22.25	-370
1009	1 3/4	18.17	7.82	1.99	0.0	7.04	22.25	-371

Purge Sampling Rates: 30 Psi ReFill 30 Dis 6

Well condition: OK carried equipment to well.

Additional Info/Comments: cloudy, breezy, cool, Heavy Traffic next to well, low yield well. Strong Sulfur smell. yellow tint.

Name: Christian Valenzuela Signature: [Signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Sunshine Canyon</u>	Well ID: <u>MV-13R</u>	Date: <u>3-9-21</u>
Access:		
Accessibility: Good: _____ Fair: <input checked="" type="checkbox"/>	Poor: _____	
Vicinity of well clear of weeds and/or debris: Yes: <input checked="" type="checkbox"/>	No: _____	
Presence of depressions or standing water around well: Yes: _____	No: <input checked="" type="checkbox"/>	
Remarks: <u>carried sampling equipment to well</u>		
Concrete Pad:		
Integrity: Good: <input checked="" type="checkbox"/>	Inadequate: _____	
Presence of depressions or standing water around well: Yes: _____	No: <input checked="" type="checkbox"/>	
Remarks: _____		
Protective Outer Casing: Material: <u>metal</u>		
Condition of Protective Casing: Good: <input checked="" type="checkbox"/>	Damaged: _____	
Condition of Locking Cap: Good: <input checked="" type="checkbox"/>	Damaged: _____	
Condition of Lock: Good: <input checked="" type="checkbox"/>	Damaged: _____	
Condition of Weepholes: Good: _____	Damaged: _____	
Remarks: _____		
Well Riser: Material: <u>PVC</u>		
Condition of Riser: Good: <input checked="" type="checkbox"/>	Damaged: _____	
Condition of Riser Cap: Good: <input checked="" type="checkbox"/>	Damaged: _____	
Measurement reference point: Yes: <input checked="" type="checkbox"/>	No: _____	
Remarks: _____		
Dedicated Pump: Type: <u>Bladder</u>		
Condition: Good: <input checked="" type="checkbox"/>	Damaged: _____	Missing: _____
Pumping Rate (gpm): <u>N/A</u>	Current (Hz): <u>N/A</u>	
Remarks: _____		

Field Certification:

Signed

Title

Date

[Signature] Field Tech 3-9-21

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunstone Cyp Project No.: SOZE 1006
 Well I.D.: MW-14 Sampling Date: 3-8-21
 Collected By: MAC Purge start Time: 10:17
 Casing Diameter (inches): 4 Purge Stop time: 10:37
 Starting Water Level: 14.06 Sampling (Well Recovery) Time: 10:47
 Total Depth (feet): 27.35 Ending Water Level (feet): 14.58
 Water column (feet): 13.29 Total Purged (gallons): 2.51
 Screen Length (feet): _____ Duplicate Sample: YES NO
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: 4.52/45Y114BA Duplicate taken at this well

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
²¹ 10:25	1.0	14.51	6.45	3.06	0.5	1.63	20.70	-154
²¹ 10:29	1.5	14.54	6.41	3.06	0.5	1.43	20.78	-158
²⁴ 10:31	1.75	14.57	6.39	3.06	0.4	1.37	20.80	-160
² 10:33	2.0	14.58	6.39	3.06	0.5	1.39	20.78	-160
10:35	2.25	"	6.38	3.06	0.3	1.35	20.80	-161
10:37	2.50	"	6.38	3.06	0.2	1.33	20.81	-162

Purge Sampling Rates: 25 psi refill 25 discharge 9

Well condition: OK
 Additional Info/Comments: Carried sampling equipment and bottles down a slope to the well
Mostly cloudy, mild breeze

Name: M. Ke Campbell Signature: [Signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Sunshine Cyn</u>		Well ID: <u>MW-14</u>		Date: <u>3-8-21</u>	
Access:					
Accessibility:		Good: _____	Fair: <u>✓</u>	Poor: _____	
Vicinity of well clear of weeds and/or debris:				Yes: _____	No: <u>✓</u>
Presence of depressions or standing water around well:				Yes: _____	No: <u>✓</u>
Remarks: <u>Carried sampling equipment down a slope to the well</u>					
Concrete Pad:					
Integrity:		Good: <u>✓</u>	Inadequate: _____		
Presence of depressions or standing water around well:				Yes: _____	No: <u>✓</u>
Remarks:					
Protective Outer Casing:		Material: <u>metal</u>			
Condition of Protective Casing:		Good: <u>✓</u>	Damaged: _____		
Condition of Locking Cap:		Good: <u>✓</u>	Damaged: _____		
Condition of Lock:		Good: <u>✓</u>	Damaged: _____		
Condition of Weepholes:		Good: <u>U</u>	Damaged: _____		
Remarks:					
Well Riser:		Material: <u>PVC</u>			
Condition of Riser:		Good: <u>✓</u>	Damaged: _____		
Condition of Riser Cap:		Good: <u>✓</u>	Damaged: _____		
Measurement reference point:		Yes: <u>✓</u>	No: _____		
Remarks:					
Dedicated Pump:		Type: <u>Bladder</u>			
Condition:		Good: <u>✓</u>	Damaged: _____	Missing: _____	
Pumping Rate (gpm):		<u>NA</u>	Current (Hz): <u>NA</u>		
Remarks:					

Field Certification: Mike Campbell Signed Field Tech Title 3-8-21 Date

**GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET**

Site Name.: Sunrise Gym
 Well I.D.: DW-1
 Collected By: mc
 Casing Diameter (inches): 4
 Starting Water Level: TOC
 Total Depth (feet): /
 Water column (feet): /
 Screen Length (feet): /
 Purge Volume (gallons): /
 Horiba Model S/N: U-52/W5414BDP

Project No.: 5020.1006
 Sampling Date: 3-8-21
 Purge start Time: /
 Purge Stop time: /
 Sampling Time: 11:35
 Ending Water Level (feet): /
 Total Purged (gallons): /
 PID/FID Reading: /
 Duplicate Sample: YES NO

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
G-1	-	8.55	3.72	4.2	2.60	17.74	-188

Purge Sampling Rates: Samples collected from discharged tube
Took significant time to fill the bottles low yield
drop by drop
 Well condition: OK

Additional Info/Comments: Partly cloudy, m.m., breeze
 Name: Mike Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Sunshine Cyn</u>	Well ID: <u>DW-1</u>	Date: <u>3-8-21</u>
Access:		
Accessibility: Good: <input checked="" type="checkbox"/>	Fair: <input type="checkbox"/>	Poor: <input type="checkbox"/>
Vicinity of well clear of weeds and/or debris: Yes: <input checked="" type="checkbox"/>	No: <input type="checkbox"/>	
Presence of depressions or standing water around well: Yes: <input checked="" type="checkbox"/>	No: <input type="checkbox"/>	
Remarks: <u>Standing water approximately 20ft away from the well</u>		
Concrete Pad:		
Integrity: Good: <input checked="" type="checkbox"/>	Inadequate: <input type="checkbox"/>	
Presence of depressions or standing water around well: Yes: <input type="checkbox"/>	No: <input checked="" type="checkbox"/>	
Remarks:		
Protective Outer Casing: Material: <u>metal</u>		
Condition of Protective Casing: Good: <input type="checkbox"/>	Damaged: <u>Corroded</u>	
Condition of Locking Cap: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	
Condition of Lock: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	
Condition of Weepholes: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	
Remarks:		
Well Riser: Material: <u>PVC</u>		
Condition of Riser: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	
Condition of Riser Cap: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	
Measurement reference point: Yes: <u>NA</u>	No: <input type="checkbox"/>	
Remarks:		
Dedicated Pump: Type: <u>Drape tube</u>		
Condition: Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	Missing: <input type="checkbox"/>
Pumping Rate (gpm): <u>NA</u>	Current (Hz): <u>NA</u>	
Remarks:		

Field Certification: Mike Campbell Signed Field Tech Title 3-8-21 Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Cyn Project No.: SO20.1006
 Well I.D.: OW-2 ~~AW-9~~ Sampling Date: 3-9-21
 Collected By: mc Purge start Time: 8:41
 Casing Diameter (inches): 4 Purge Stop time: 9:01
 Starting Water Level: 25.53 Sampling (Well Recovery) Time: 9:10
 Total Depth (feet): 70.92 Ending Water Level (feet): 28.77
 Water column (feet): 45.39 Total Purged (gallons): 2.5
 Screen Length (feet): _____ Duplicate Sample: YES NO

Sample Method: Micro Purge Low Flow
 Horiba Model S/N: U-52/454120A

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
8:49	1.0	27.15	7.26	2.42	0.0	1.51	18.00	-146
8:53	1.5	28.03	7.26	2.42	0.2	1.38	18.05	-142
8:55	1.25	28.44	7.26	2.42	0.3	1.34	18.09	-143
8:57	2.0	28.60	7.26	2.42	0.1	1.32	18.11	-144
8:59	2.25	28.69	7.26	2.42	0.1	1.30	18.13	-144
9:01	2.50	28.77	7.26	2.42	0.0	1.29	18.11	-146

Purge Sampling Rates: 40psi refill 30 discharge 15
water is clear with no odor

Well condition: ok
vegetation around well and path to the well
 Additional Info/Comments: clear, warm, breeze

Name: Mike Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility:	Sunshine Cym	Well ID:	DW-2	Date:	3-9-21
Access:					
Accessibility:	Good: _____	Fair: <input checked="" type="checkbox"/>	Poor: _____		
Vicinity of well clear of weeds and/or debris:	Yes: <input checked="" type="checkbox"/>		No: _____		
Presence of depressions or standing water around well:	Yes: _____		No: <input checked="" type="checkbox"/>		
Remarks:	Vegetation around well maintained and path to the well				
Concrete Pad:					
Integrity:	Good: <input checked="" type="checkbox"/>	Inadequate: <input checked="" type="checkbox"/>			
Presence of depressions or standing water around well:	Yes: _____		No: <input checked="" type="checkbox"/>		
Remarks:	half of concrete pad is buried				
Protective Outer Casing:					
	Material:	Metal			
Condition of Protective Casing:	Good: <input checked="" type="checkbox"/>	Damaged: _____			
Condition of Locking Cap:	Good: <input checked="" type="checkbox"/>	Damaged: _____			
Condition of Lock:	Good: <input checked="" type="checkbox"/>	Damaged: _____			
Condition of Weepholes:	Good: <input checked="" type="checkbox"/>	Damaged: _____			
Remarks:					
Well Riser:					
	Material:	PVC			
Condition of Riser:	Good: <input checked="" type="checkbox"/>	Damaged: _____			
Condition of Riser Cap:	Good: <input checked="" type="checkbox"/>	Damaged: _____			
Measurement reference point:	Yes: <input checked="" type="checkbox"/>	No: _____			
Remarks:					
Dedicated Pump:					
	Type:	Blonde			
Condition:	Good: <input checked="" type="checkbox"/>	Damaged: _____	Missing: _____		
Pumping Rate (gpm):	NA		Current (Hz): NA		
Remarks:					

Field Certification: Julie C. [Signature] Field Tech 3-9-21
 Signed Title Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Cyn
 Well I.D.: DW-3
 Collected By: MC
 Casing Diameter (inches): 4
 Starting Water Level: 156.92
 Total Depth (feet): 248.65
 Water column (feet): 91.73
 Screen Length (feet): _____

Project No.: 5020.1006
 Sampling Date: 3-10-21
 Purge start Time: 9:18
 Purge Stop time: 9:38
 Sampling (Well Recovery) Time: 9:48
 Ending Water Level (feet): 159.87
 Total Purged (gallons): 2.5+
 Duplicate Sample: YES NO

Sample Method: Micro Purge Low Flow
 Horiba Model S/N: U-52 / W5Y1WB00

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
9:26	1.0	158.36	7.15	1.96	1.0	1.70	18.88	-27
9:30	1.5	158.44	7.13	1.96	1.3	.93	18.89	-62
9:32	1.75	159.28	7.12	1.96	1.5	.70	18.88	-77
9:34	2.0	159.48	7.11	1.96	1.2	.59	18.89	-82
9:36	2.25	159.65	7.11	1.96	1.0	.56	18.94	-85
9:38	2.50	159.87	7.11	1.96	1.0	.52	18.92	-86

Purge Sampling Rates: 120 psi refill 40 discharge 17

Well condition: OK

Additional Info/Comments: cloudy, cool, some rain

Name: Mike Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Sunshine Cyn</u>		Well ID: <u>DW-3</u>		Date: <u>3-10-21</u>	
Access:					
Accessibility:		Good: <u>✓</u>	Fair: _____	Poor: _____	
Vicinity of well clear of weeds and/or debris:				Yes: _____	No: _____
Presence of depressions or standing water around well:				Yes: _____	No: _____
Remarks:					
Concrete Pad:					
Integrity:		Good: <u>✓</u>	Inadequate: _____		
Presence of depressions or standing water around well:				Yes: _____	No: _____
Remarks:					
Protective Outer Casing:		Material: <u>metal</u>			
Condition of Protective Casing:		Good: <u>✓</u>	Damaged: _____		
Condition of Locking Cap:		Good: <u>✓</u>	Damaged: _____		
Condition of Lock:		Good: <u>✓</u>	Damaged: _____		
Condition of Weepholes:		Good: <u>✓</u>	Damaged: _____		
Remarks:					
Well Riser:		Material: <u>PVC</u>			
Condition of Riser:		Good: <u>✓</u>	Damaged: _____		
Condition of Riser Cap:		Good: <u>✓</u>	Damaged: _____		
Measurement reference point:		Yes: <u>✓</u>	No: _____		
Remarks:					
Dedicated Pump:		Type: <u>Bladder</u>			
Condition:		Good: <u>✓</u>	Damaged: _____	Missing: _____	
Pumping Rate (gpm): <u>NA</u>		Current (Hz): <u>NA</u>			
Remarks:					

Field Certification: Mike Campbell Signed Field Tech Title 3-10-21 Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Canyon Project No.: S020-1006
 Well I.D.: P2-2 Sampling Date: 3-9-2021
 Collected By: CV Purge start Time: 0735
 Casing Diameter (inches): 2 Purge Stop time: 0805
 Starting Water Level: 120.71 Sampling (Well Recovery) Time: 0830
 Total Depth (feet): 157.53 Ending Water Level (feet): 126.94
 Water column (feet): 36.82 Total Purged (gallons): 2
 Screen Length (feet): Duplicate Sample: YES NO
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: 4-52-6648625

0745

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0745 0745	1/2	123.13	9.14	5.40	0.0	1.84	23.17	-153
0752	1	124.57	9.22	5.40	0.0	1.44	23.28	-149
0755	1 1/4	125.24	9.22	5.40	0.0	1.35	23.30	-148
0758	1 1/2	125.87	9.22	5.40	0.0	1.28	23.37	-148
0802	1 3/4	126.49	9.22	5.40	0.0	1.24	23.39	-146
0805	2	126.94	9.22	5.39	0.0	1.20	23.43	-145

Purge Sampling Rates: 80 PSI Refill: 30 Dis: 19

Well condition: OK, carried Equipment and Bottles Across Channel

Additional Info/Comments: cloudy, breezy, cold

Name: Christian Valenzuela Signature: Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Shoshone canyon</u>	Well ID: <u>PZ-2</u>	Date: <u>3-9-21</u>
Access:		
Accessibility: Good: _____ Fair: _____ Poor: <u>✓</u>		
Vicinity of well clear of weeds and/or debris: Yes: _____ No: <u>✓</u>		
Presence of depressions or standing water around well: Yes: _____ No: <u>✓</u>		
Remarks: <u>carried sampling equipment across concrete channel</u>		
Concrete Pad:		
Integrity: Good: _____ Inadequate: <u>N/A</u>		
Presence of depressions or standing water around well: Yes: _____ No: _____		
Remarks: <u>NO concrete pad</u>		
Protective Outer Casing: Material: <u>metal</u>		
Condition of Protective Casing: Good: <u>✓</u> Damaged: _____		
Condition of Locking Cap: Good: <u>✓</u> Damaged: _____		
Condition of Lock: Good: _____ Damaged: _____		
Condition of Weepholes: Good: _____ Damaged: _____		
Remarks: _____		
Well Riser: Material: <u>PVC</u>		
Condition of Riser: Good: <u>✓</u> Damaged: _____		
Condition of Riser Cap: Good: <u>✓</u> Damaged: _____		
Measurement reference point: Yes: <u>✓</u> No: _____		
Remarks: _____		
Dedicated Pump: Type: <u>Bladder</u>		
Condition: Good: <u>✓</u> Damaged: _____ Missing: _____		
Pumping Rate (gpm): <u>N/A</u> Current (Hz): <u>N/A</u>		
Remarks: _____		

Field Certification:

Christian Walker
Signed

Field Tech
Title

3-9-21
Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Cyn Project No.: 5020.1006
 Well I.D.: PZ-4 Sampling Date: 3-9-21
 Collected By: MC Purge start Time: 11:56
 Casing Diameter (inches): 2 Purge Stop time: 12:26
 Starting Water Level: 110.25 ~~110.25~~ Sampling (Well Recovery) Time: 12:36
 Total Depth (feet): 118.95 Ending Water Level (feet): 113.51
 Water column (feet): 8.66 ~~8.66~~ 8.70 Total Purged (gallons): 2.57
 Screen Length (feet): _____ Duplicate Sample: YES NO
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: 4.52/WSY14800

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
12:06	1.0	112.57	7.00	1.39	19.5	1.55	22.47	-115
12:12	1.5	112.91	7.01	1.40	11.9	1.40	22.46	-115
12:15	1.75	113.05	7.01	1.40	10.4	1.32	22.44	-112
12:18	2.0	113.20	7.00	1.40	8.9	1.28	22.46	-112
12:22	2.25	113.36	7.00	1.40	9.1	1.26	22.44	-113
12:26	2.50	113.51	6.99	1.39	6.9	1.23	22.50	-115

Purge Sampling Rates: 90 psi ref. 11 30 discharge 22
water, mostly clear with a slight odor

Well condition: OK

Additional Info/Comments: cloudy, cold, breezy

Name: Mike Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Sunshine Cyn</u>		Well ID: <u>PZ-4</u>		Date: <u>3-9-21</u>	
Access:					
Accessibility:		Good: _____	Fair: <u>✓</u>	Poor: _____	
Vicinity of well clear of weeds and/or debris:				Yes: <u>✓</u>	No: _____
Presence of depressions or standing water around well:				Yes: _____	No: <u>0</u>
Remarks:					
Concrete Pad:					
Integrity:		Good: <u>✓</u>	Inadequate: _____		
Presence of depressions or standing water around well:				Yes: _____	No: _____
Remarks: <u>Flushman</u>					
Protective Outer Casing:		Material: <u>metal Flushman</u>			
Condition of Protective Casing:		Good: <u>✓</u>	Damaged: _____		
Condition of Locking Cap:		Good: <u>NA</u>	Damaged: _____		
Condition of Lock:		Good: <u>NA</u>	Damaged: _____		
Condition of Weepholes:		Good: <u>NA</u>	Damaged: _____		
Remarks:					
Well Riser:		Material: <u>PVC</u>			
Condition of Riser:		Good: <u>✓</u>	Damaged: _____		
Condition of Riser Cap:		Good: <u>✓</u>	Damaged: _____		
Measurement reference point:		Yes: <u>✓</u>	No: _____		
Remarks:					
Dedicated Pump:		Type: <u>Bladder</u>			
Condition:		Good: <u>✓</u>	Damaged: _____	Missing: _____	
Pumping Rate (gpm): <u>NA</u>		Current (Hz): <u>NA</u>			
Remarks:					

Field Certification: Mike Campbell Signed Field Tech Title 3-9-21 Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Cyn
 Well I.D.: DW-5
 Collected By: MC
 Casing Diameter (inches): 4
 Starting Water Level: 13.39
 Total Depth (feet): 100.46
 Water column (feet): 87.07
 Screen Length (feet): _____

Project No.: 5020-1006
 Sampling Date: 3-10-21
 Purge start Time: 7:52
 Purge Stop time: 8:24
 Sampling (Well Recovery) Time: 8:34
 Ending Water Level (feet): 16.61
 Total Purged (gallons): 2.55
 Duplicate Sample: YES NO

Sampling Method: Micro Purge Low Flow
 Horiba Model S/N: W-52/W541WB00

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
8:05	1.0	14.95	8.05	1.61	4.3	1.43	17.75	-159
8:11	1.5	15.59	8.05	1.61	4.0	1.81	17.71	-165
8:14	1.75	15.91	8.06	1.61	2.1	1.77	17.81	-168
8:18	2.0	16.16	8.06	1.61	2.8	1.75	17.84	-171
8:21	2.25	16.39	8.05	1.61	4.1	1.73	17.80	-172
8:24	2.50	16.61	8.05	1.61	2.4	1.72	17.69	-173

Purge Sampling Rates: 65 psi refill 30 discharge 20
 water is mostly clear with a hydrocarbon odor with a light brown color
 Well condition: OK shack House with controls to the meters right next to the well

Additional Info/Comments: Cloudy, cold, rain
Heavy effervescent in preserved VOC's difficult to achieve zero head space

Name: Mike Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Sunshine Cyn</u>		Well ID: <u>DW-5</u>		Date: <u>3-10-21</u>	
Access:					
Accessibility:		Good: <input checked="" type="checkbox"/>	Fair: <input type="checkbox"/>	Poor: <input type="checkbox"/>	
Vicinity of well clear of weeds and/or debris:				Yes: <input checked="" type="checkbox"/>	No: <input type="checkbox"/>
Presence of depressions or standing water around well:				Yes: <input type="checkbox"/>	No: <input checked="" type="checkbox"/>
Remarks:					
Concrete Pad:					
Integrity:		Good: <input type="checkbox"/>	Inadequate: <input checked="" type="checkbox"/>		
Presence of depressions or standing water around well:				Yes: <input type="checkbox"/>	No: <input checked="" type="checkbox"/>
Remarks: <u>concrete pad is buried</u>					
Protective Outer Casing:					
		Material: <u>Metal</u>			
Condition of Protective Casing:		Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>		
Condition of Locking Cap:		Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>		
Condition of Lock:		Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>		
Condition of Weepholes:		Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>		
Remarks:					
Well Riser:					
		Material: <u>PVC</u>			
Condition of Riser:		Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>		
Condition of Riser Cap:		Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>		
Measurement reference point:		Yes: <input checked="" type="checkbox"/>	No: <input type="checkbox"/>		
Remarks:					
Dedicated Pump:					
		Type: <u>Bladder</u>			
Condition:		Good: <input checked="" type="checkbox"/>	Damaged: <input type="checkbox"/>	Missing: <input type="checkbox"/>	
Pumping Rate (gpm): <u>NA</u>		Current (Hz): <u>NA</u>			
Remarks:					

Field Certification: Mike Campbell Signed Field Tech Title 3-10-21 Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Canyon
 Well I.D.: MW-2A
 Collected By: CV
 Casing Diameter (inches): 4"
 Starting Water Level: 33.69
 Total Depth (feet): 41.27
 Water column (feet): 7.58
 Screen Length (feet): -
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: U-52 WGG-P86-R5

Project No.: SO20-1006
 Sampling Date: 3-8-21
 Purge start Time: 0826
 Purge Stop time: 0905
 Sampling (Well Recovery) Time: 0930
 Ending Water Level (feet): 35.15
 Total Purged (gallons): 2
 Duplicate Sample: YES NO

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0838	1/2	34.17	6.43	3.12	0.1	2.55	21.40	-28
0848	1	34.54	6.44	3.14	0.1	2.26	21.63	-41
0853	1 1/4	34.73	6.45	3.16	0.1	2.09	21.75	-47
0857	1 1/2	34.89	6.45	3.15	0.1	1.88	21.77	-49
0901	1 3/4	35.03	6.46	3.16	0.1	1.82	21.85	-52
0905	2	35.15	6.46	3.17	0.1	1.79	21.82	-54

Purge Sampling Rates: 25 PSI Refill-20 Dis-6

Well condition: OK

Additional Info/Comments: cloudy, cool, Breeze, Hqd to Hike equipment to well down Hill side. Low turbid. Slight odor and light yellowish tint. Erosion around well.

Name: Christina Valenzuela Signature: [Signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-2A Date: 3-8-21

Access:

Accessibility: Good: Fair: Poor:

Vicinity of well clear of weeds and/or debris: Yes: No:

Presence of depressions or standing water around well: Yes: No:

Remarks: carried sampling equipment and containers down to well. Heavy erosion around well.

Concrete Pad:

Integrity: Good: Inadequate:

Presence of depressions or standing water around well: Yes: No:

Remarks: Concrete pad buried.

Protective Outer Casing: Material: metal

Condition of Protective Casing: Good: Damaged:

Condition of Locking Cap: Good: Damaged:

Condition of Lock: Good: Damaged:

Condition of Weepholes: Good: Damaged:

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: Damaged:

Condition of Riser Cap: Good: Damaged:

Measurement reference point: Yes: No:

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: Damaged: Missing:

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: [Signature] Field Tech 3-8-21

Signed _____ Title _____ Date _____

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Canyon Project No.: S020-1006
 Well I.D.: MW-2B Sampling Date: 3-8-21
 Collected By: CV Purge start Time: 0956
 Casing Diameter (inches): 4 Purge Stop time: 1012
 Starting Water Level: 17.59 Sampling (Well Recovery) Time: 1032
 Total Depth (feet): 70.90 Ending Water Level (feet): 21.25
 Water column (feet): 53.31 Total Purged (gallons): 2 1/2
 Screen Length (feet): — Duplicate Sample: YES NO
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: 4-52 VGG-86R5

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1002	1	19.17	7.25	3.10	0.0	2.74	21.90	-107
1005	1 1/2	20.02	7.25	3.10	0.0	2.37	22.01	-106
1008	2	20.65	7.25	3.16	0.0	2.30	22.03	-106
1010	2 1/4	21.06	7.25	3.10	0.0	2.25	22.04	-106
1012	2 1/2	21.25	7.25	3.09	0.6	2.20	22.02	-106

Purge Sampling Rates: 40 PSI 35 Refill Dis-14

Well condition: OK, Erosion Around Well, carried sampling equipment to wells.

Additional Info/Comments: cloudy, cool, slight breeze. water mostly clear, no odor

Name: Christina Valenzuela Signature: [Signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Sunshine Canyon</u>	Well ID: <u>MW-2B</u>	Date: <u>3-8-21</u>
Access:		
Accessibility: Good: _____ Fair: _____ Poor: <input checked="" type="checkbox"/>		
Vicinity of well clear of weeds and/or debris: Yes: _____ No: <input checked="" type="checkbox"/>		
Presence of depressions or standing water around well: Yes: <input checked="" type="checkbox"/> No: _____		
Remarks: <u>carried sampling equipment Down Hill. observed Erosion Around well.</u>		
Concrete Pad:		
Integrity: Good: _____ Inadequate: _____		
Presence of depressions or standing water around well: Yes: <input checked="" type="checkbox"/> No: _____		
Remarks: <u>Half of the pad is Buried cant see Integrity.</u>		
Protective Outer Casing: Material: <u>metal</u>		
Condition of Protective Casing: Good: <input checked="" type="checkbox"/> Damaged: _____		
Condition of Locking Cap: Good: <input checked="" type="checkbox"/> Damaged: _____		
Condition of Lock: Good: <input checked="" type="checkbox"/> Damaged: _____		
Condition of Weepholes: Good: <input checked="" type="checkbox"/> Damaged: _____		
Remarks: _____		
Well Riser: Material: <u>PVC</u>		
Condition of Riser: Good: <input checked="" type="checkbox"/> Damaged: _____		
Condition of Riser Cap: Good: <input checked="" type="checkbox"/> Damaged: _____		
Measurement reference point: Yes: <input checked="" type="checkbox"/> No: _____		
Remarks: _____		
Dedicated Pump: Type: <u>Bladder</u>		
Condition: Good: <input checked="" type="checkbox"/> Damaged: _____ Missing: _____		
Pumping Rate (gpm): <u>N/A</u> Current (Hz): <u>N/A</u>		
Remarks: _____		

Field Certification: Christian Volkmann Field Tech 3-8-21
 Signed _____ Title _____ Date _____

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Cyn Project No.: 5020.1006
 Well I.D.: MW-9 Sampling Date: 3-9-21
 Collected By: MC Purge start Time: 9:30
 Casing Diameter (inches): 4 Purge Stop time: 10:37
 Starting Water Level: 22.35 Sampling (Well Recovery) Time: 10:57
 Total Depth (feet): 25.90 Ending Water Level (feet): 22.45
 Water column (feet): 3.55 Total Purged (gallons): 1.5
 Screen Length (feet): _____ Duplicate Sample: YES NO
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: U-52/W5414B00

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
9:43	.25	22.40	6.44	3.82	2.0	1.90	20.55	-100
9:53	.5	22.42	6.44	3.83	1.9	1.26	20.91	-107
10:11	.75	22.44	6.44	3.83	2.6	1.18	20.84	-109
10:20	1.0	22.44	6.44	3.82	3.0	1.15	20.79	-109
10:29	1.25	22.45	6.44	3.82	2.8	1.09	20.87	-109
10:37	1.50	22.45	6.44	3.83	2.6	1.11	20.90	-110

Purge Sampling Rates: 25 psi refill 25 discharge 3.0
water is clear with a greenish tint and a slight odor

Well condition: OK Required carrying equipment to well to sample

Additional Info/Comments: mostly clear, mild green

Name: m. ke Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: <u>Sunshine Cyn</u>		Well ID: <u>MW-9</u>		Date: <u>3-9-21</u>	
Access:					
Accessibility:		Good: _____	Fair: <u>✓</u>	Poor: _____	
Vicinity of well clear of weeds and/or debris:				Yes: <u>✓</u>	No: _____
Presence of depressions or standing water around well:				Yes: _____	No: <u>✓</u>
Remarks: <u>Required carrying sampling equipment and bottles to the well</u>					
Concrete Pad:					
Integrity:		Good: <u>✓</u>	Inadequate: _____		
Presence of depressions or standing water around well:				Yes: _____	No: <u>✓</u>
Remarks:					
Protective Outer Casing:		Material: <u>metal flushmount</u>			
Condition of Protective Casing:		Good: <u>✓</u>	Damaged: _____		
Condition of Locking Cap:		Good: <u>✓</u>	Damaged: _____		
Condition of Lock:		Good: <u>✓</u>	Damaged: _____		
Condition of Weepholes:		Good: <u>✓</u>	Damaged: _____		
Remarks:					
Well Riser:		Material: <u>PVC</u>			
Condition of Riser:		Good: <u>✓</u>	Damaged: _____		
Condition of Riser Cap:		Good: <u>✓</u>	Damaged: _____		
Measurement reference point:		Yes: <u>✓</u>	No: _____		
Remarks:					
Dedicated Pump:		Type: <u>bladder</u>			
Condition:		Good: <u>✓</u>	Damaged: _____	Missing: _____	
Pumping Rate (gpm):		<u>NA</u>	Current (Hz):		<u>NA</u>
Remarks:					

Field Certification: Mike Campbell Signed Field Tech Title 3-9-21 Date

GROUNDWATER MONITORING PROGRAM WELL DATA SHEET

Site Name: Sunshine Canyon
 Well I.D.: DW-4
 Collected By: CV
 Casing Diameter (inches): 4
 Starting Water Level: 32.25
 Total Depth (feet): 134.60
 Water column (feet): 102.35
 Screen Length (feet): _____
 Sample Method: Micro Purge Low Flow
 Horiba Model S/N: 4-52 WGG-8625

Project No.: 5020-1006
 Sampling Date: 3-8-21
 Purge start Time: 1108
 Purge Stop time: 1124
 Sampling (Well Recovery) Time: 1144
 Ending Water Level (feet): 34.73
 Total Purged (gallons): 2 3/4
 Duplicate Sample: YES NO

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1114	1	33.46	7.38	3.27	0.0	2.78	21.91	-146
1116	1 1/2	33.85	7.37	3.28	0.0	2.43	21.86	-139
1118	2	34.19	7.36	3.29	0.0	2.37	21.85	-136
1120	2 1/4	34.37	7.36	3.29	0.0	2.28	21.87	-134
1122	2 1/2	34.58	7.36	3.29	0.0	2.26	21.85	-134
1124	2 3/4	34.73	7.36	3.29	0.0	2.23	21.85	-133

* Blanks Taken Here *

Purge Sampling Rates: 75 PSI Refill-30 DIS-16

Well condition: OK, Had to carry equipment to well. Heavy erosion around well

Additional Info/Comments: cool, cloudy, Breezy water had greenish tint with odor.

Name: Christian Valenzuela Signature: Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Shoshone Canyon Well ID: DW-4 Date: 3-8-21

Access:

Accessibility: Good: Fair: Poor:

Vicinity of well clear of weeds and/or debris: Yes: No:

Presence of depressions or standing water around well: Yes: No:

Remarks: carried sampling Equipment down to well.
Heavy Erosion Around well

Concrete Pad:

Integrity: Good: Inadequate:

Presence of depressions or standing water around well: Yes: No:

Remarks: Buried, not able to see Integrity

Protective Outer Casing: Material: metal

Condition of Protective Casing: Good: Damaged:

Condition of Locking Cap: Good: Damaged:

Condition of Lock: Good: Damaged:

Condition of Weepholes: Good: Damaged:

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: Damaged:

Condition of Riser Cap: Good: Damaged:

Measurement reference point: Yes: No:

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: Damaged: Missing:

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: [Signature] Field Tech 3-8-21

Signed _____ Title _____ Date _____

GROUNDWATER MONITORING PROGRAM SURFACE WATER DATA SHEET

Site Name: Sunshine Cyn

Project No.: SOW-1006

Station I.D.: Extraction Trench

Sampling Date: 03-04-21

Collected By: BS

Sampling Time: 1305

Horiba Model S/N: RRJ5494H

Duplicate Sample: YES NO

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
yellowish	yes	5.78	3.95	15.5	2.13	21.18	-80

Surface water conditions (including stream flow rate, stream depth): Sampled taken a
Filter unit.

Additional Info/Comments: Sunny, Cool

Bert Salinas Bert Salinas

GROUNDWATER MONITORING PROGRAM SURFACE WATER DATA SHEET

SITE: Sunshine Spr

Station I.D.: Subdrain(N)
 Collected By: BS
 Horiba Model S/N: R8TSW00H

Sampling Date: 03-04-21
 Sampling Time: 0958
 Duplicate Sample: YES NO

COLOR	ODOR	pH	CONDUCTIVITY <small>µs/cm</small>	TURBIDITY <small>NTU</small>	D.O. <small>mg/L</small>	TEMPERATURE <small>°C</small>	O.R.P. <small>mV</small>
<u>none of yellow</u>	<u>neg</u>	<u>5.79</u>	<u>3.20</u>	<u>29.2</u>	<u>0.68</u>	<u>17.51</u>	<u>-78</u>

Surface water conditions (including stream flow rate, stream depth): Sampled taken @
discharge side to subdrain. 2" (HDPE).

Additional Info/Comments: Sunny, cool

BS

**GROUNDWATER MONITORING PROGRAM
 SURFACE WATER DATA SHEET**

S200-1006

SITE: Sunshine Crn.

Station I.D.: Combined Subdrain
 Collected By: BS
 Horiba Model S/N: R805494H

Sampling Date: 03-04-21
 Sampling Time: 1140
 Duplicate Sample: YES NO

COLOR	ODOR	pH	CONDUCTIVITY <small>µs/cm</small>	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
<u>Yellowish</u>	<u>Yes</u>	<u>5.96</u>	<u>2.88</u> <small>ms/cm</small>	<u>127</u>	<u>1.78</u>	<u>17.73</u>	<u>-51</u>

Surface water conditions (including stream flow rate, stream depth): Sampled taken a 2" HDPE pipe after flow meter

Additional Info/Comments: Sunny, Clear
Best Salinas Best Salinas