August 15, 2023

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FIRST SEMIANNUAL 2023 MONITORING REPORT
SUNSHINE CANYON CITY/COUNTY LANDFILL, SYLMAR, CALIFORNIA

Please find enclosed the First Semiannual 2023 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 (WDR) Order Number R4-2008-0088 and Monitoring and Reporting Program (M&RP) Cl-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 2023 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) is completed and approved by the RWQCB (replacement CAP currently under construction).

During the monitoring period, a notice of violation (NOV) was issued with respect to WDR Order Number R4-2008-0088, Sections E.2, E.3, E.4, E.17, K.1.a, and K.4 on May 17, 2023. The issuance of the violation was due to a storm event which caused drainage structures to fail and stormwater and waste to discharge to Bull Creek. In accordance with the NOV, BFI of California submitted a response letter dated June 16, 2023. The letter discusses and responds to the violations cited and provides a date of August 17, 2023 for all repairs associated with the violation to be completed. A report demonstrating that Sunshine Canyon Landfill drainage systems, including all drainage channels, sediment retention basins, and interim and final covers are in compliance with the WDRs and industrial general permit will be submitted to the RWQCB by August 17, 2023.

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, retest samples confirmed WQPS exceedances for carbon disulfide at well MW-13R and for total dissolved solids at well MW-14 during the monitoring period. Following three or more years of monitoring results indicating no WQPS exceedances, the following analyte/well pairs were removed from tracking mode:

- MW-14: Alkalinity
- DW-3: Ammonia as nitrogen
- DW-5: Ammonia as nitrogen

Retest results are pending for second quarter 2023 WQPS exceedances of:

- MW-1: Tetrahydrofuran
- MW-14: Chloride
- DW-5: t-butanol, isobutyl alcohol, and naphthalene

Retest results will be presented in the next semiannual monitoring report.

During the first semiannual 2023 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 contact Kate Downey at (818) 362-2154 / Kdowney@republicservices.com or Paul Koster at (818) 362-2258 / pkoster@republicservices.com.

Sincerely,

Michael Stewart

Michael Stewart
General Manager
Sunshine Canyon Landfill

Water Quality Monitoring Report
Second Semiannual (January – June) 2023
Sunshine Canyon Landfill
Facility WDID #L10006014618

Submitted to

Los Angeles Regional Water Quality Control Board
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Submitted by

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August 2023

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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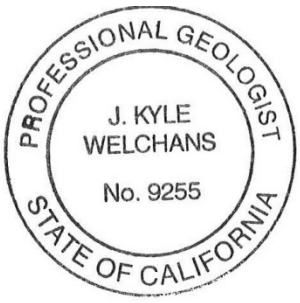

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Acronyms and Abbreviations

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 2023 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, 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 $2.8e^{-6}$ 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 2023 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.

Recently abandoned monitoring wells are shown in Red.

In accordance with a November 9, 2020 RWQCB letter, all CAP facilities constructed in the alluvium including cutoff walls, the groundwater extraction system, and groundwater monitoring and extraction wells were properly removed and/or abandoned to allow for construction of a replacement CAP system. The replacement CAP system is further described in the Groundwater Corrective Action System Modification Workplan (GLA, 2020).

3.2 Sampling and Laboratory Analysis

Groundwater samples collected by GLA during the first and second quarter 2023 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 2023 and also for supplemental parameters during the second quarter 2023 (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 2023 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 included in the testing program, 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. Results for tentatively identified compounds (TICs) are included in the analytical reports in Appendix B. However, results for TICs are not summarized herein, as these compounds are only "tentatively identified". The results of the QA/QC sampling program are as follows:

First Quarter 2023 Monitoring Event

- All samples collected during the first quarter 2023 monitoring event were analyzed within the recommended holding times prescribed by the respective analytical method (Appendix B).
- As indicated on Table 3A, no constituents were detected in trip blank, field blank, or method blank samples during the first quarter 2023 monitoring event.
- As shown in Table 4A, the relative percent difference (RPD) between quantifiable primary and duplicate water quality samples was four percent or less, indicating good agreement between primary and duplicate samples.

Second Quarter 2023 Monitoring Event

- All analyses were completed within the recommended holding times prescribed by the respective analytical method (Appendix B).
- As indicated on Table 3B, quantifiable concentrations of carbon dioxide and a trace concentration of iron were measured in method blank samples during the second quarter 2023 monitoring event. With the exception of iron in the samples collected from wells

CM-11R, MW-14, and PZ-2, which were flagged as suspected lab contaminants, the low concentrations measured in method blanks did not affect the interpretation of primary sample results.

- As shown on Table 4B, with one exception, the RPD between quantifiable primary and duplicate water quality samples was seven percent or less, indicating good agreement between primary and duplicate samples. The only constituent falling outside of seven percent RPD was total organic carbon, which had an RPD of 17 percent.

The results of the QA/QC program completed during the first semiannual 2023 monitoring period are considered acceptable and representative of water quality at the site.

3.4 Groundwater Elevations

During the first semiannual 2023 monitoring period, quarterly depth to groundwater measurements were recorded on March 20 and June 19 and 20, 2023. Groundwater equipotential surface contours were developed for wells screened in bedrock using first and second quarter 2023 groundwater elevation data. Figures 3A and 3C depict groundwater elevation contours overlain on a topographic map for the March and June 2023 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 June 2023 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 ft/ft near well pair MW-1/DW-5.

3.5 Groundwater Chemistry Results

Groundwater samples collected from site monitoring wells were analyzed for indicator parameters during the first quarter 2023 monitoring period, and for indicator and supplemental

parameters during the second quarter 2023 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 2022 Retest Groundwater Chemistry Results

Groundwater monitoring results for the fourth quarter 2022 monitoring event indicated exceedances of water quality protection standards (WQPS) for the following: t-butanol and tetrahydrofuran at well MW-1, t-butanol at well MW-13R, potassium at well PZ-2, and 1,4-dioxane at well PZ-4. Because these analyte/well pairs are not in tracking mode, retest samples were collected on January 25, 2023. The results are summarized in the following table.

WELL	ANALYTE	UNITS	WQPS	4th QUARTER 2022 RESULT	RETEST RESULT (1)	RETEST RESULT (2)
MW-1	Tetrahydrofuran	µg/L	VOC	3.9j	1.8j	1.7j
MW-1	t-Butanol	µg/L	VOC	13	ND	ND
MW-13R	t-Butanol	µg/L	VOC	4.0j	7.4	7.4
PZ-2	Potassium	mg/L	4.693	4.9	3.2	3.0
PZ-4	1,4-Dioxane	µg/L	VOC	0.61	ND	ND

Note: PQL – Practical Quantitation Limit.
j – estimated trace concentration.
VOC – WQPS is one quantifiable detection or two or more estimated-trace detections.
ND – Not detected.

As shown in the preceding table, WQPS were exceeded at quantifiable concentrations in the retest samples collected from well MW-13R (t-butanol) and this well/analyte pair has been placed in tracking mode. No other retest results exceeded a respective WQPS.

3.5.2 First Quarter 2023 Groundwater Chemistry Results

During the first quarter 2023 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 2023 monitoring results with WQPS. The following table summarizes WQPS exceedances and verification retesting results (when applicable).

WELL	ANALYTE	UNITS	WQPS	1st QUARTER 2023 RESULT	RETEST RESULT (1)	RETEST RESULT (2)
MW-1	Chloride	mg/L	408.469	650	260	270
	Total Dissolved Solids	mg/L	4495	6800	3800	3500
	1,4-Dioxane	µg/L	VOC	2.7	TM	TM
MW-5	1,4-Dioxane	µg/L	VOC	1.7	TM	TM
MW-13R	Ammonia-Nitrogen	mg/L	7.732	13	TM	TM
	Chemical Oxygen Demand	mg/L	407.58	610	TM	TM
	Potassium	mg/L	27.224	38	TM	TM
	Carbon Disulfide	µg/L	VOC	0.99j	0.38j	0.54j
	1,4-Dioxane	µg/L	VOC	6.3	TM	TM
MW-14	Chemical Oxygen Demand	mg/L	54.674	71j	38j	33j
	Total Dissolved Solids	mg/L	5128.5	5300	6700	6800
DW-3	Chemical Oxygen Demand	mg/L	15.206	17j	TM	TM
DW-5	Isobutyl Alcohol	µg/L	VOC	66	ND	ND
	Toluene	µg/L	VOC	0.32j	TM	TM
PZ-2	Chemical Oxygen Demand	mg/L	26.386	43j	ND	ND
PZ-4	Ammonia-Nitrogen	mg/L	2.976	3.1	2.4	2.4
	Chemical Oxygen Demand	mg/L	24.85	31j	ND	ND
	Potassium	mg/L	5.643	6.2	4.6	4.8
	Total Dissolved Solids	mg/L	1529.5	1900	1400	1400
	1,4-Dioxane	µg/L	VOC	1.2	ND	ND

Notes: 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.
NS – Not sampled.
j – Estimated-trace concentration.

Several constituents exceeding respective intrawell WQPS listed in the preceding table 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, retest results for carbon disulfide at well MW-13R and TDS at well MW-14 exceeded the respective WQPS and will be added to tracking mode.

None of the analyte concentrations measured in samples collected during the first quarter 2023 monitoring period exceeded Federal or State primary drinking water Maximum Contaminant

Levels (Table 6A). However, TDS results for all monitoring wells and the chloride concentration measured in well MW-1 exceeded state secondary drinking water standards.

3.5.3 Second Quarter 2023 Groundwater Chemistry Results

Groundwater samples obtained during the second quarter 2023 monitoring event were analyzed for the indicator and supplemental parameters (Table 2). Analytical results for all groundwater 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	2nd QUARTER 2023 RESULT
MW-1	1,4-Dioxane	µg/L	VOC	12
	Tetrahydrofuran	µg/L	VOC	2.1
MW-5	1,4-Dioxane	µg/L	VOC	2.3
MW-13R	Ammonia-N	mg/L	7.732	9.6
	Chemical Oxygen Demand	mg/L	407.58	520
	Potassium	mg/L	27.224	30
	t-Butanol	µg/L	VOC	3.1j
	1,4-Dioxane	µg/L	VOC	5.0
MW-14	Chloride	mg/L	88.987	100
	TDS	mg/L	5128.5	6000
DW-5	t-Butanol	µg/L	VOC	3.7j
	Isobutyl Alcohol	µg/L	VOC	100
	Naphthalene	µg/L	VOC	0.72j
	Toluene	µg/L	VOC	0.30j

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

Several of the well/constituent pairs listed in the preceding table as exceeding a WQPS during the current monitoring period have previously been confirmed in verification retests. However, the following will require verification retesting during the third quarter 2023:

- MW-1: Tetrahydrofuran
- MW-14: Chloride

- DW-5: t-butanol, isobutyl alcohol, and naphthalene

As shown on Table 6B, the concentration of fluoride exceeded the primary drinking water standard in samples from monitoring wells MW-1 and DW-5. Similarly, concentrations of TDS, sulfate, iron, and manganese exceed State of California secondary drinking water standards in samples from many site monitoring wells, including upgradient (background) monitoring wells.

3.5.4 Tracking Mode Evaluation

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	1st QUARTER RESULTS	2nd QUARTER RESULTS	HISTORICAL TRENDS AND OBSERVATIONS
CM-9R3: Benzene	PQL	ND	ND	No detections above the PQL. Field cross-contamination suspected.
CM-11R: 1,4-Dioxane	PQL	ND	ND	One historical detection above PQL.
MW-1: 1,4-Dioxane	PQL	2.7	12	Variable concentrations between MDL and 30 µg/L
MW-1: Acetone	PQL	ND	ND	Two sporadic low-level detections.
MW-5: 1,4-Dioxane	PQL	1.7	2.3	Consistently measured above the PQL at variable concentrations up to 20 µg/L.
MW-5: t-Butanol	PQL	ND	ND	Not detected since February 2020.
MW-5: Tetrahydrofuran	PQL	ND	ND	Two historical detections above the PQL.
MW-13R: 1,4-Dioxane	PQL	6.3	5.0	Variable concentrations between 4 µg/L and 11 µg/L since 2015.
MW-13R: t-Butanol	PQL	ND	3.1j	Typically sporadic trace detections.
MW-13R: Carbon Disulfide	PQL	0.99j	ND	Recently entered tracking mode.
MW-13R: Potassium	27.224 mg/L	38	30	Slight increasing trend over past 10 years.
MW-13R: Ammonia-N	7.732 mg/L	13	9.6	Typically near WQPS (above or below) except one outlier in February 2020.
MW-13R: COD	407.58 mg/L	610	520	Typically below the WQPS except for recent observations.

WELL/ANALYTE PAIR	CONCENTRATION LIMIT	1st QUARTER RESULTS	2nd QUARTER RESULTS	HISTORICAL TRENDS AND OBSERVATIONS
MW-14: TDS	5128.5 mg/L	**5300**	**6000**	Recently re-entered tracking mode.
DW-5: Toluene	PQL	0.32j	0.30j	Recently entered tracking mode at low concentrations.

Note: **Bolded Red** = Concentration Limit Exceeded.
ND = Not Detected.
j = Estimated-trace concentration.

During the first semiannual 2023 monitoring period, carbon disulfide at monitoring well MW-13R and TDS at well DW-5 were added to tracking mode. As shown on the charts in Appendix G, VOCs in tracking mode are often detected sporadically and at variable concentrations. Constituents in tracking mode that have not exceeded a respective concentration limit in more than three years are removed from tracking mode and re-verified if detected in the future. During the monitoring period, the following well/analyte pair were removed from tracking mode:

- MW-14: Alkalinity
- DW-3: Ammonia as N
- DW-5: Ammonia as N

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 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 2023 Subdrain Monitoring Results

Quarterly subdrain monitoring was conducted on March 20 and June 20, 2023 and samples were collected from "combined subdrains". However, no samples were collected from Subdrain N as the monitoring point could not be located during the monitoring period due to nearby construction. Samples were delivered to Eurofins for analyses of the indicator parameters (first and second) and supplement parameters (second quarter).

As shown on Tables 8A (first quarter 2023) and 8B (second quarter 2023), the sample from combined subdrains contained up to nine VOCs. VOC constituent concentrations were significantly less than recent historical results.

With the exception of 1,4-dichlorobenzene and benzene concentrations in the second quarter 2023 sample, VOC results for the combined subdrain sample were measured below State and federal primary drinking water standards during the first semiannual 2023 monitoring period. As is typical for SCLF subdrain samples, concentrations of pH, sulfate, 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 380-foot-long inclined riser at the east side of Cell A.

4.2.2 First and Second Quarter 2023 Lysimeter Monitoring Results

During the monitoring period, lysimeter LY-7 was sampled on March 20 and June 20, 2023, while LY-6 was reported dry. The samples collected from LY-7 contained up to seven VOCs. Concentrations of VOCs were typically low during both quarters with the exception of t-butanol (660 µg/L) and 1,4-dioxane (140 µg/L) during the first quarter 2023.

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 2023 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 3.4 %V at probe P-245 in June 2023.

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 2023 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.

During the monitoring period the stormwater conveyance system was damaged following a series of storms. The damaged stormwater conveyance system components resulted in discharge to Bull Creek and subsequent issuance of a notice of violation (NOV) by the RWQCB. In accordance with the NOV, BFI submitted a June 16, 2023 response letter which discussed the violations and provided an August 17, 2023 date for correcting all violations. The NOV and June 16, 2023 response letter are included in Appendix H.

6.2 Stream Diversion Monitoring

No monitoring of stream water quality associated with Stream Bed Alteration was performed during the current monitoring period (California Department of Fish and Game).

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 in 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 10, 2022. Based on the results obtained, retesting was conducted on April 14, 2023 for the following:

- Organochlorine Pesticides: Endosulfan I (LR-2R and Deep Leachate) Endosulfan Sulfate (LR-2R).

Retesting was conducted on April 14, 2023. The organochlorine pesticides listed above were not detected in retest samples and therefore, will not be added to the 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, 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 2023 monitoring period, approximately 20,185,324 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 29,619,304 gallons of water from the City of Los Angeles Department of Water and Power (Table 12).

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 2023 monitoring period, the required standard observations were made by site personnel. A summary of NPDES monitoring is provided in the NPDES annual report, which is submitted to the Stormwater Multiple Application and Report Tracking System (SMARTS) website and a copy of the report is included in Appendix D.

10. Waste Disposal Monitoring

During the first semiannual 2023 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	185,798	251,078
February	187,925	253,953
March	189,208	255,687
April	189,560	256,162
May	206,306	278,792
June	211,659	286,026
January-June 2023 Totals:	**1,170,456**	**1,581,697**

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 2023 monitoring period, approximately 1,170,456 tons of waste was disposed of at the SCLF. The remaining capacity at the SCL is estimated at approximately 62,348,264 cubic yards. The site estimates closure of the SCLF will occur in 2037.

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

During the first semiannual 2023 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 (September 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 in accordance with Order No. R4-2011-0052 and the facility's 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 Table 13.

11.1 First Semiannual 2023 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 (TTLC) 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 2023 monitoring period met the waste acceptance requirements of the Amended WDRs and the site-specific WAP.

12. Summary

During the first semiannual 2023 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.

Concentration limits were exceeded for several analyte/well pairs that have historically been in tracking mode during the first semiannual 2023 monitoring period. Review of the tracking mode charts (Appendix G) indicates that there are no significant increasing trends for tracking mode analyte/well pairs. Retesting performed for analyte/well pairs not in tracking mode, confirmed a WQPS exceedance for carbon disulfide at well MW-13R and for TDS at well MW-14 during the monitoring period. Following three or more years with no results exceeding a WQPS Ammonia as N at wells DW-3 and DW-5 and alkalinity at well MW-14 were removed from tracking mode.

Retesting is currently scheduled as a result of WQPS exceedances during the second quarter 2023. Retest results will be summarized in the January through June 2024 Semiannual Report. The following retests are scheduled:

- MW-1: Tetrahydrofuran
- MW-14: Chloride
- DW-5: t-butanol, isobutyl alcohol, and naphthalene

During the first semiannual 2023 monitoring period, methane concentrations did not exceed 5%V at any landfill gas monitoring probe during monthly monitoring.

During the monitoring period the stormwater conveyance system was damaged following a series of storms, which resulted in discharge to Bull Creek and subsequent issuance of an NOV by the RWQCB. In accordance with the NOV, BFI submitted a June 16, 2023 response letter which discussed the violations and provided an August 17, 2023 date for correcting all violations. A follow up report demonstrating that Sunshine Canyon Landfill drainage systems, including all drainage channels, sediment retention basins, and interim and final covers are in compliance with the WDRs and the industrial general permit will be submitted to the RWQCB by August 17, 2023. The NOV and June 16, 2023 response letter are included in Appendix H.

No new seeps were identified during the first semiannual 2023 monitoring period.

Leachate, landfill gas condensate, 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 2023:

- Several landfill gas collection and control system upgrades were completed in the first half of 2023, including installations/activations of:
    - 40 new vertical extraction wells.
    - 5,550 feet of horizontal/slope gas collectors.
    - 20 dewatering pumps in vertical extraction wells.
    - 1,500 linear feet of 18-inch header.
- Ongoing construction of the front entrance project (new access roadway/toe berm).
- The Terminal Berm Underdrain Sump went online in mid April 2023.

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.

Geo-Logic Associates, 2022, "Semiannual (December through December) and Annual 2022 Water Quality Monitoring Report, Sunshine Canyon Landfill." February.

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

TetraTech BAS, 2019, "Joint Technical Document, Sunshine Canyon Landfill, Los Angeles County, California, Amendment No. 5" September.

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
	Groundawter 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 permittied 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
I.B.1	Discussion of compliance record, monitoring system changes, construction plans, corrective action milestones, etc.	Section 12.0
I.B.2	Graphical Presentation of Analytical Data	Appendix H
I.B.3	Analytical data presented in tabular form	Appendix I

TABLE 2
ANALYTICAL PARAMETERS AND METHODS
SUNSHINE CANYON LANDFILL

Parameter	Typical USEPA Method	Frequency
Indicator Parameters		
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
Supplemental Parameters		
pH	Field	Semiannual
Electrical Conductivity (EC)	Field	Semiannual
Temperature	Field	Semiannual
Turbidity	Field	Semiannual
Bicarbonate as CaCO3	310.1	Semiannual
Boron, total	6010B	Semiannual
Bromide	300.0	Semiannual
Calcium, total	6010b	Semiannual
Carbon dioxide	SM4500-CO2	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
Constituents of Concern (COCs)		(Last conducted Dec 2021)
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: June 2026)

TABLE 3A
SUMMARY OF BLANK SAMPLE RESULTS - FIRST QUARTER 2023
SUNSHINE CANYON LANDFILL

Primary Sampling Date	Blank Sampling Date	Blank Sample Collection Type	Reported Analytes
3/20/23	3/20/23	QCAB	None Detected
	3/20/23	QCTB	None Detected
	3/20/23	Method Blank	None Detected
3/21/23	3/21/23	QCAB	None Detected
	3/21/23	QCTB	None Detected
	3/21/23	Method Blank	None Detected

TABLE 3B
SUMMARY OF BLANK SAMPLE RESULTS - SECOND QUARTER 2023
SUNSHINE CANYON LANDFILL

Primary Sampling Date	Blank Sampling Date	Blank Sample Collection Type	Reported Analytes
6/19/23	6/19/23	QCAB	None Detected
	6/19/23	QCTB	None Detected
	6/19/23	Method Blank	Carbon Dioxide (3.34 mg/L)
6/20/23	6/20/23	QCAB	None Detected
	6/20/23	QCTB	None Detected
	6/20/23	Method Blank	Iron (0.162j 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 2023
SUNSHINE CANYON LANDFILL

ANALYTE	CM-10R 3/20/23	DUPLICATE 3/20/23	RELATIVE PERCENT DIFFERENCE
GENERAL CHEMISTRY CONSTITUENTS (mg/L):			
Alkalinity, total	260	260	0
Ammonia (as N)	9.0	9.0	0
Chemical Oxygen Demand	**43**	**29**	NC
Chloride	**7.7**	**7.7**	NC
Total Dissolved Solids	2800	2700	4
Total Organic Compound	2.7	2.7	0
METALS (mg/L):			
Potassium	13	13	0
VOLATILE & SEMI-VOLATILE ORGANIC COMPOUNDS (µg/L): None Detected			

TABLE 4B
SUMMARY OF DUPLICATE SAMPLE RESULTS -SECOND QUARTER 2023
SUNSHINE CANYON LANDFILL

ANALYTE	CM-9R3 6/19/2023	DUPLICATE 6/19/2023	RELATIVE PERCENT DIFFERENCE
GENERAL CHEMISTRY CONSTITUENTS (mg/L):			
Alkalinity, total	99	99	0
Ammonia (as N)	1.0	1.0	0
Bicarbonate alkalinity	99	99	0
Bromide	0.27	0.26	4
Carbon Dioxide*	96	93	3
Chemical Oxygen Demand	**38**	**38**	NC
Chloride	19	19	0
Fluoride	1.2	1.2	0
Nitrate (as N)	0.56	0.53	6
Sulfate	2500	2400	4
Sulfide, total	0.017	0.017	NC
Total Dissolved Solids	3800	3700	3
Total Organic Carbon	13	11	17
METALS (mg/L):			
Boron	1.4	1.4	0
Calcium	390	410	5
Iron	1.0	1.0	0
Magnesium	230	240	4
Manganese	1.9	2.0	5
Potassium	13	14	7
Sodium	320	330	3
VOLATILE AND SEMIVOLATILE ORGANIC COMPOUNDS (µg/L): None Detected			

Notes:
Right-justified value, non-shaded box indicates a quantified concentration (above the Practica Quanitation 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.

TABLE 5
GROUNDWATER ELEVATIONS AND SITE MONITORING WELL INFORMATION
SUNSHINE CANYON LANDFILL

Well Number	MW-1	MW-2A	MW-2B	MW-5	MW-6	MW-9	MW-13R	MW-14	DW-1	DW-2	DW-3	DW-4
Well Casing Elevation (ft, MSL)	1344.48	1381.71	1381.98	1341.42	1347.32	1363.32	1345.78	1354.19	1351.93	1521.92	1682.54	1382.02
Approximate Well Casing Elevation (ft, MSL)*	-	1397.01	1398.68	-	-	-	-	-	-	-	-	1400.82
Total Depth of Well (ft)	29.60	41.30	70.90	26.20	23.50	26.70	27.80	28.10	205.80	72.30	256.60	134.60
Pump Depth (ft)	27.30	40.00	52.20	25.00	19.70	24.90	26.40	25.00	199.00	70.00	247.00	
Well Diameter (in)	4	4	4	2	2	4	4	4	4	4	4	4
Type of Pump (ft)	Bladder	Bladder	Bladder	Bladder	Bladder	Bladder	Bladder	Bladder	Drop Tube	Bladder	Bladder	Bladder
Depth to Water (ft below TOC)												
3/9/12	17.08	21.38	5.58	19.03	16.97	20.96	17.59	14.83	0.00	25.74	151.46	5.54
3/28/12	16.85	21.37	5.44	NM	16.72	20.28	16.89	14.79	0.00	NM	NM	5.52
6/22/12	17.31	21.42	5.57	19.37	17.13	15.26	17.83	15.47	0.00	26.64	151.69	5.63
9/18/12	17.56	21.74	5.81	19.70	17.09	13.36	18.10	15.08	0.00	28.38	151.68	5.79
12/17/12	17.94	21.96	5.90	19.24	16.62	12.56	17.51	14.98	0.00	27.33	151.98	5.90
3/11/13	15.88	21.60	5.73	18.84	16.34	14.81	16.57	14.48	0.00	26.88	150.31	5.94
6/25/13	16.13	21.74	5.89	19.36	16.57	16.57	17.36	14.75	0.00	27.68	151.13	6.28
9/16/13	16.95	21.88	6.04	19.71	16.85	16.95	17.71	14.92	0.00	28.78	151.82	6.35
12/16/13	16.58	21.81	5.84	19.44	16.62	17.01	17.62	14.68	0.00	29.48	152.19	6.28
3/24/14	15.92	21.89	5.70	19.82	17.16	13.05	18.00	15.42	0.00	29.42	152.53	6.21
6/9/14	16.41	21.96	7.04	19.14	16.54	12.63	17.74	14.80	0.00	30.47	152.54	6.65
9/15/14	17.16	22.38	6.76	19.67	16.82	12.01	18.04	14.79	0.00	31.82	152.72	6.87
12/15 & 23/2014	16.39	20.60	4.98	19.05	16.17	11.65	18.24	14.35	0.00	32.33	152.89	5.24
3/23/15	16.58	21.65	5.77	19.28	16.59	20.04	18.16	14.65	0.00	31.57	152.88	5.92
6/15/15	16.86	22.10	5.57	19.41	16.72	22.02	18.34	14.73	0.00	32.74	151.25	5.75
9/28/15	17.27	21.91	5.59	19.91	16.69	19.49	18.75	14.80	0.00	33.88	151.11	5.86
12/1/15	17.04	16.08	1.46	19.72	16.70	20.20	18.83	14.92	0.00	34.33	151.56	2.21
3/28/16	16.61	19.05	12.41	19.33	16.46	20.47	18.53	14.61	0.00	33.56	151.71	14.12
6/20/16	16.89	17.14	11.52	19.81	16.67	16.64	18.61	14.85	0.00	34.66	152.51	18.11
9/19/16	17.49	32.29	20.05	20.01	16.83	15.46	19.20	14.87	0.00	35.10	153.10	32.82
12/19/16	17.12	31.33	19.49	19.85	17.33	15.15	19.26	14.61	0.00	35.28	153.56	34.65
3/13/17	15.19	30.43	17.64	17.58	16.38	13.96	17.22	14.44	0.00	23.08	153.54	21.79
6/12/17	15.59	30.84	17.11	18.61	16.53	12.95	17.42	14.58	0.00	23.56	153.21	21.94
9/18/17	15.64	33.57	18.38	19.14	16.69	11.88	17.74	14.50	0.00	24.83	153.77	31.51
12/4/17	15.35	34.01	18.75	19.16	16.85	13.44	17.95	14.74	0.00	25.90	154.74	32.32
3/12/18	14.36	33.71	18.67	19.47	16.11	13.45	16.94	14.67	0.00	25.51	154.38	32.72
6/12/18	14.49	32.56	17.77	18.88	16.47	17.81	16.69	14.52	0.00	25.56	154.63	32.59
9/18/18	15.59	33.81	18.64	19.32	16.78	21.13	17.07	14.55	0.00	26.95	154.82	32.81
12/10/18	13.14	33.62	18.86	18.34	16.20	19.26	16.13	14.17	0.00	27.85	155.37	32.84
3/25/19	8.19	32.25	18.17	15.22	15.38	14.84	16.06	13.84	0.00	19.39	155.32	32.19
6/24/19	8.61	32.37	16.80	16.83	16.15	20.95	16.43	14.31	0.00	21.97	155.45	32.18
9/9/19	10.36	32.71	17.08	17.33	16.38	21.98	14.52	14.51	0.00	23.43	155.62	32.27
12/2/19	14.01	33.52	17.58	17.73	16.24	21.84	16.28	14.01	0.00	24.51	155.84	32.33
2/17/20	15.16	33.56	17.66	18.07	16.30	22.11	16.85	14.09	0.00	24.08	156.01	32.35
6/22/20	15.12	33.44	17.56	18.08	16.36	21.73	17.07	14.03	0.00	23.23	156.28	32.20
9/21/20	15.92	33.64	17.71	18.47	16.35	22.19	17.70	13.99	0.00	24.60	156.52	32.22
12/21/20	15.99	33.54	17.58	18.50	16.09	22.39	17.59	13.68	0.00	25.08	156.44	32.18
3/4/21	16.03	33.73	17.66	18.62	16.33	22.36	17.71	14.07	0.00	25.55	157.04	32.28
5/17/21	16.04	33.43	17.63	18.69	16.47	18.39	17.68	14.23	0.00	26.07	157.18	32.08
9/27/21	16.03	32.28	17.09	18.51	16.59	16.70	17.70	14.28	0.00	27.53	157.55	31.89
12/6/21	15.94	33.07	17.41	18.67	16.49	16.63	17.74	14.27	0.00	27.84	157.72	31.93
3/14/22	15.46	32.45	17.43	18.07	16.32	12.79	17.23	14.20	0.00	22.93	158.97	31.58
6/13/22	15.67	32.86	17.53	18.62	16.56	12.33	17.60	14.46	0.00	24.23	158.16	31.87
9/19/22	15.84	ABANDONED	ABANDONED	18.87	16.63	ABANDONED	17.65	14.39	ABANDONED	25.79	158.38	ABANDONED
12/1/22	15.47	ABANDONED	ABANDONED	18.65	15.98	ABANDONED	16.92	13.82	ABANDONED	26.34	158.41	ABANDONED
3/20/23	12.97	ABANDONED	ABANDONED	11.45	14.77	ABANDONED	13.82	12.15	ABANDONED	14.47	158.39	ABANDONED
6/19 & 20/2023	14.22	ABANDONED	ABANDONED	16.48	16.15	ABANDONED	16.29	13.89	ABANDONED	17.74	156.75	ABANDONED
Liquid Elevation (ft, MSL)												
3/9/12	1327.40	1360.33	1376.40	1322.39	1330.35	1342.36	1328.19	1339.36	1351.93	1496.18	1531.08	1376.48
3/28/12	1327.63	1360.34	1376.54	NM	1330.60	1343.04	1328.89	1339.40	1351.93	NM	NM	1376.50
6/22/12	1327.17	1360.29	1376.41	1322.05	1330.19	1348.06	1327.95	1338.72	1351.93	1495.28	1530.85	1376.39
9/18/12	1326.92	1359.97	1376.17	1321.72	1330.23	1349.96	1327.68	1339.11	1351.93	1493.54	1530.86	1376.23
12/17/12	1326.54	1359.75	1376.08	1322.18	1330.70	1350.76	1328.27	1339.21	1351.93	1494.59	1530.56	1376.12
3/11/13	1328.60	1360.11	1376.25	1322.58	1330.98	1348.51	1329.21	1339.71	1351.93	1495.04	1532.23	1376.08
6/25/13	1328.35	1359.97	1376.09	1322.06	1330.75	1346.75	1328.42	1339.44	1351.93	1494.24	1531.41	1375.74
9/16/13	1327.53	1359.83	1375.94	1321.71	1330.47	1346.37	1328.07	1339.27	1351.93	1493.14	1530.72	1375.67
12/16/13	1327.90	1359.90	1376.14	1321.98	1330.70	1346.31	1328.16	1339.51	1351.93	1492.44	1530.35	1375.74
3/24/14	1328.56	1359.82	1376.28	1321.60	1330.16	1350.27	1327.78	1338.77	1351.93	1492.50	1530.01	1375.81
6/9/14	1328.07	1359.75	1374.94	1322.28	1330.78	1350.69	1328.04	1339.39	1351.93	1491.45	1530.00	1375.37
9/15/14	1327.32	1359.33	1375.22	1321.75	1330.50	1351.31	1327.74	1339.40	1351.93	1490.10	1529.82	1375.15
12/15 & 23/2014	1328.09	1361.11	1377.00	1322.37	1331.15	1351.67	1327.54	1339.84	1351.93	1489.59	1529.65	1376.78
3/23/2015	1327.90	1360.06	1376.21	1322.14	1330.73	1343.28	1327.62	1339.54	1351.93	1490.35	1529.66	1376.10
6/15/2015	1327.62	1359.61	1376.41	1322.01	1330.60	1341.30	1327.44	1339.46	1351.93	1489.18	1531.29	1376.27
9/28/2015	1327.21	1359.80	1376.39	1321.51	1330.63	1343.83	1327.03	1339.39	1351.93	1488.04	1531.43	1376.16
12/1/2015	1327.44	1365.63	1380.52	1321.70	1330.62	1343.12	1326.95	1339.27	1351.93	1487.59	1530.98	1379.81
3/28/2016	1327.87	1362.66	1369.57	1322.09	1330.86	1342.85	1327.25	1339.58	1351.93	1488.36	1530.83	1367.90
6/20/2016	1327.59	1364.57	1370.46	1321.61	1330.65	1346.68	1327.17	1339.34	1351.93	1487.26	1530.03	1363.91
9/19/2016	1326.99	1349.42	1361.93	1321.41	1330.49	1347.86	1326.58	1339.32	1351.93	1486.82	1529.44	1349.20
12/19/2016	1327.36	1365.68	1379.19	1321.57	1329.99	1348.17	1326.52	1339.58	1351.93	1486.64	1528.98	1366.17
3/13/2017	1329.29	1366.58	1381.04	1323.84	1330.94	1349.36	1328.56	1339.75	1351.93	1498.84	1529.00	1379.03
6/12/2017	1328.89	1366.17	1381.57	1322.81	1330.79	1350.37	1328.36	1339.61	1351.93	1498.36	1529.33	1378.88
9/18/2017	1328.84	1363.44	1380.30	1322.28	1330.63	1351.44	1328.04	1339.69	1351.93	1497.09	1528.77	1369.31
12/4/2017	1329.13	1363.00	1379.93	1322.26	1330.47	1349.88	1327.83	1339.45	1351.93	1496.02	1527.80	1368.50
3/12/18	1330.12	1363.30	1380.01	1321.95	1331.21	1349.87	1328.84	1339.52	1351.93	1496.41	1528.16	1368.10
6/12/18	1329.99	1364.45	1380.91	1322.54	1330.85	1345.51	1329.09	1339.67	1351.93	1496.36	1527.91	1368.23
9/18/18	1328.89	1363.20	1380.04	1322.10	1330.54	1342.19	1328.71	1339.64	1351.93	1494.97	1527.72	1368.01
12/10/18	1331.34	1363.39	1379.82	1323.08	1331.12	1344.06	1329.65	1340.02	1351.93	1494.07	1527.17	1367.98
3/25/19	1336.29	1364.76	1380.51	1326.20	1331.94	1348.48	1329.72	1340.35	1351.93	1502.53	1527.22	1368.63
6/24/19	1335.87	1364.64	1381.88	1324.59	1331.17	1342.37	1329.35	1339.88	1351.93	1499.95	1527.09	1368.64
9/9/19	1334.12	1364.30	1381.60	1324.09	1330.94	1341.34	1331.26	1339.68	1351.93	1498.49	1526.92	1368.55
12/2/19	1330.47	1363.49	1381.10	1323.69	1331.08	1341.48	1329.50	1340.18	1351.93	1497.41	1526.70	1368.49
2/17/20	1329.32	1363.45	1381.02	1323.35	1331.02	1341.21	1328.93	1340.10	1351.93	1497.84	1526.53	1368.47
6/22/20	1329.36	1363.57	1381.12	1323.34	1330.96	1341.59	1328.71	1340.16	1351.93	1498.69	1526.26	1368.62
9/21/20	1328.56	1363.37	1380.97	1322.95	1330.97	1341.13	1328.08	1340.20	1351.93	1497.32	1526.02	1368.60
12/21/20	1328.49	1363.47	1381.10	1322.92	1331.23	1340.93	1328.19	1340.51	1351.93	1496.84	1526.10	1368.64
3/4/21	1328.45	1363.28	1381.02	1322.80	1330.99	1340.96	1328.07	1340.12	1351.93	1496.37	1525.50	1368.54
5/17/21	1328.44	1363.58	1381.05	1322.73	1330.85	1344.93	1328.10	1339.96	1351.93	1495.85	1525.36	1368.74
9/27/21	1328.45	1364.73	1381.59	1322.91	1330.73	1346.62	1328.08	1339.91	1351.93	1494.39	1524.99	1368.93
12/6/21	1328.54	1363.94	1381.27	1322.75	1330.83	1346.69	1328.04	1339.92	1351.93	1494.08	1524.82	1368.89
3/14/22	1329.02	1364.56	1381.25	1323.35	1331.00	1350.53	1328.55	1339.99	1351.93	1498.99	1523.57	1369.24
6/13/22	1328.81	1364.15	1381.15	1322.80	1330.76	1350.99	1328.18	1339.73	1351.93	1497.69	1524.38	1368.95
9/19/22	1328.64	ABANDONED	ABANDONED	1322.55	1330.69	ABANDONED	1328.13	1339.80	ABANDONED	1496.13	1524.16	ABANDONED
12/1/22	1329.01	ABANDONED	ABANDONED	1322.77	1331.34	ABANDONED	1328.86	1340.37	ABANDONED	1495.58	1524.13	ABANDONED
3/20/23	1331.51	ABANDONED	ABANDONED	1329.97	1332.55	ABANDONED	1331.96	1342.04	ABANDONED	1507.45	1524.15	ABANDONED
6/19 & 20/2023	1330.26	ABANDONED	ABANDONED	1324.94	1331.17	ABANDONED	1329.49	1340.30	ABANDONED	1504.18	1525.79	ABANDONED

Note:
MSL = Mean Sea Level
TOC = Top of Casing
BOC = Bottom of Casing
NA = Not Available
NM = Not Measured
All wells resurveyed in 2014, except for the following: PZ-1, PZ-3, & MW-8. Well CM-5R resurveyed in 2015
* - Top of casing elevations are approximate for Wells MW-2A, MW-2B, and DW-4 (raised in September 2016 - survey pending).

TABLE 5, CONTINUED
GROUNDWATER ELEVATIONS AND SITE MONITORING WELL INFORMATION
SUNSHINE CANYON LANDFILL

Well Number	DW-5	PZ-1	PZ-2	PZ-3	PZ-4	CM-9R3	CM-10R	CM-11R	MW-8	CM-5	CM-5R
Well Casing Elevation (ft, MSL)	1347.54	1643.76	1566.52	2029.19	1795.85	1902.40	1901.20	2010.41	1362.37	1892.84	2032.00
Approximate Well Casing Elevation (ft, MSL)*	-	-	-	-	-	1907.40	-	-	-	-	-
Total Depth of Well (ft)	101.00	103.30	160.90	230.00	125.50	33.15	110.90	31.00		60.00	60
Depth of Pump (ft)					122.00	32.50	100.00	29.80			
Well Diameter (in)	4	2	2	2	2	4	4	4		2	2
Type of Pump	Bladder		Bladder		Bladder	Bladder	Bladder	Bladder	Bladder		
Depth to Water (ft below TOC)											
3/9/12	NM	89.25	NM	215.42	110.79	12.15	NM	22.44	17.89	20.46	NM
3/28/12	14.96	NM	123.22	NM	NM	10.01	NM	23.45	NM	NM	NM
6/22/12	14.73	89.33	123.14	215.69	110.73	10.81	46.85	18.26	15.68	21.60	NM
9/18/12	15.03	NM	123.18	215.78	110.92	13.82	48.31	NM	13.80	22.03	NM
12/17/12	14.90	83.27	123.27	215.90	110.80	11.42	47.37	23.11	13.62	19.86	NM
3/11/13	14.26	89.81	123.02	NM	110.11	9.89	47.57	21.02	15.32	17.39	NM
6/25/13	14.04	90.10	122.92	NM	110.23	13.29	48.70	22.62	16.41	19.16	NM
9/16/13	13.99	89.97	122.82	NM	110.10	15.30	49.13	24.31	16.46	19.50	NM
12/16/13	14.23	90.52	122.94	NM	110.18	17.09	49.36	25.56	16.44	18.62	NM
3/24/14	14.88	90.63	122.81	NM	110.38	12.58	49.81	20.88	14.41	18.08	NM
6/9/14	19.14	90.62	122.57	NM	110.37	15.41	50.26	21.90	15.23	19.34	NM
9/15/14	14.47	90.81	122.54	NM	110.46	17.95	50.69	23.54	13.39	20.61	NM
12/15 & 23/2014	14.43	90.81	122.68	NM	110.70	9.59	50.14	23.32	13.74	NM	NM
3/23/15	14.61	91.45	122.71	216.12	110.88	12.92	51.37	19.71	18.03	ABANDONED	198.53
6/15/15	14.44	91.48	122.52	216.42	110.93	16.14	51.55	22.10	18.61	ABANDONED	201.10
9/28/15	14.53	91.82	122.50	217.06	111.14	17.56	51.98	24.40	17.68	ABANDONED	202.46
12/1/15	14.78	92.05	122.67	217.53	111.30	18.87	52.38	26.09	18.18	ABANDONED	204.25
3/28/16	14.39	91.84	122.38	217.74	111.23	12.06	52.41	20.47	18.20	ABANDONED	206.39
6/20/16	14.36	91.97	122.44	218.20	111.56	15.41	52.81	22.39	18.04	ABANDONED	208.15
9/19/16	15.02	92.25	122.34	218.70	111.72	17.80	53.88	27.29	16.13	ABANDONED	210.04
12/19/16	15.06	92.39	122.61	219.13	112.01	19.91	52.94	28.54	16.03	ABANDONED	211.36
3/13/17	14.86	92.63	122.37	219.34	111.89	7.96	48.72	12.13	15.37	ABANDONED	212.49
6/12/17	14.62	92.46	122.37	219.63	111.69	10.55	49.51	15.98	14.46	ABANDONED	213.66
9/18/17	14.56	92.52	122.38	220.08	111.66	13.02	50.14	17.67	13.30	ABANDONED	214.90
12/4/17	14.82	92.92	122.54	220.37	111.81	14.34	50.76	19.66	14.32	ABANDONED	215.90
3/12/18	14.25	93.04	122.34	221.53	111.77	9.62	47.46	13.69	15.03	ABANDONED	216.91
6/12/18	14.02	92.97	122.17	221.04	111.43	11.47	49.55	16.16	16.07	ABANDONED	NM
9/18/18	14.23	93.07	122.13	221.53	111.70	13.39	50.48	18.23	17.28	ABANDONED	NM
12/10/18	14.01	93.44	122.39	221.92	111.94	10.18	49.70	19.11	16.42	ABANDONED	220.28
3/25/19	13.84	93.62	122.17	222.04	111.58	8.69	46.18	10.99	12.96	ABANDONED	220.60
6/24/19	13.42	93.42	121.99	222.24	111.24	10.24	47.16	15.93	16.05	ABANDONED	221.36
9/9/19	13.34	93.47	122.02	222.47	110.80	11.88	47.91	18.59	17.53	ABANDONED	221.72
12/2/19	13.25	93.68	121.79	222.74	110.68	11.53	46.43	21.41	17.68	ABANDONED	222.43
2/17/20	13.28	93.73	121.49	222.88	110.63	10.65	48.09	16.04	17.56	ABANDONED	222.77
6/22/20	13.23	93.83	121.23	223.19	110.51	9.98	47.39	15.97	17.47	ABANDONED	223.56
9/21/20	13.15	94.07	121.11	223.56	110.23	12.02	48.23	17.98	17.48	ABANDONED	223.97
12/21/20	13.43	94.09	120.93	223.58	110.02	13.02	48.88	19.88	17.71	ABANDONED	224.26
3/4/21	13.55	94.38	120.70	223.94	110.27	12.43	49.13	20.46	17.55	ABANDONED	224.88
5/17/21	13.28	94.48	120.59	223.93	110.21	13.63	49.39	22.35	16.02	ABANDONED	225.25
9/27/21	13.39	94.68	120.31	224.18	110.33	14.72	50.34	24.35	15.89	ABANDONED	225.82
12/6/21	13.38	94.61	120.33	224.25	110.28	20.27	50.59	25.81	15.61	ABANDONED	225.96
3/14/22	13.62	94.73	120.28	224.48	110.51	15.47	48.78	15.35	14.40	ABANDONED	226.39
6/13/22	13.29	94.67	120.11	224.71	110.35	17.47	49.13	16.42	14.38	ABANDONED	226.86
9/19/22	13.18	94.44	120.12	224.89	110.43	18.64	49.78	19.17	ABANDONED	ABANDONED	227.24
12/1/22	13.56	94.66	120.34	224.77	110.42	17.88	49.75	20.78	ABANDONED	ABANDONED	227.50
3/20/23	12.96	94.78	119.93	224.88	109.72	5.67	43.51	5.58	ABANDONED	ABANDONED	227.59
6/19 & 20/2023	12.95	94.98	119.62	225.08	109.76	14.01	44.92	15.09	ABANDONED	ABANDONED	227.84
Liquid Elevation (ft, MSL)											
3/9/12	NM	1554.51	NM	1813.77	1685.06	1890.25	NM	1987.97	1344.48	1872.38	NM
3/28/12	1332.58	NM	1443.30	NM	NM	1892.39	NM	1986.96	NM	NM	NM
6/22/12	1332.81	1554.43	1443.38	1813.50	1685.12	1891.59	1854.35	1992.15	1346.69	1871.24	NM
9/18/12	1332.51	NM	1443.34	1813.41	1684.93	1888.58	1852.89	NM	1348.57	1870.81	NM
12/17/12	1332.64	1560.49	1443.25	1813.29	1685.05	1890.98	1853.83	1987.30	1348.75	1872.98	NM
3/11/13	1333.28	1553.95	1443.50	NM	1685.74	1892.51	1853.63	1989.39	1347.05	1875.45	NM
6/25/13	1333.50	1553.66	1443.60	NM	1685.62	1889.11	1852.50	1987.79	1345.96	1873.68	NM
9/16/13	1333.55	1553.79	1443.70	NM	1685.75	1887.10	1852.07	1986.10	1345.91	1873.34	NM
12/16/13	1333.31	1553.24	1443.58	NM	1685.67	1885.31	1851.84	1984.85	1345.93	1874.22	NM
3/24/14	1332.66	1553.13	1443.71	NM	1685.47	1889.82	1851.39	1989.53	1347.96	1874.76	NM
6/9/14	1328.40	1553.14	1443.95	NM	1685.48	1886.99	1850.94	1988.51	1347.14	1873.50	NM
9/15/14	1333.07	1552.95	1443.98	NM	1685.39	1884.45	1850.51	1986.87	1348.98	1872.23	NM
12/15 & 23/2014	1333.11	1552.95	1443.84	NM	1685.15	1892.81	1851.06	1987.09	1348.63	NM	NM
3/23/2015	1332.93	1552.31	1443.81	1813.07	1684.97	1889.48	1849.83	1990.70	1344.34	ABANDONED	1833.47
6/15/2015	1333.10	1552.28	1444.00	1812.77	1684.92	1886.26	1849.65	1988.31	1343.76	ABANDONED	1830.9
9/28/2015	1333.01	1551.94	1444.02	1812.13	1684.71	1884.84	1849.22	1986.01	1344.69	ABANDONED	1829.54
12/1/2015	1332.76	1551.71	1443.85	1811.66	1684.55	1883.53	1848.82	1984.32	1344.19	ABANDONED	1827.75
3/28/2016	1333.15	1551.92	1444.14	1811.45	1684.62	1890.34	1848.79	1989.94	1344.17	ABANDONED	1825.61
6/20/2016	1333.18	1551.79	1444.08	1810.99	1684.29	1886.99	1848.39	1988.02	1344.33	ABANDONED	1823.85
9/19/2016	1332.52	1551.51	1444.18	1810.49	1684.13	1884.60	1847.32	1983.12	1346.24	ABANDONED	1821.96
12/19/2016	1332.48	1551.37	1443.91	1810.06	1683.84	1882.49	1848.26	1981.87	1346.34	ABANDONED	1820.64
3/13/2017	1332.68	1551.13	1444.15	1809.85	1683.96	1894.44	1852.48	1998.28	1347.00	ABANDONED	1819.51
6/12/2017	1332.92	1551.30	1444.15	1809.56	1684.16	1891.85	1851.69	1994.43	1347.91	ABANDONED	1818.34
9/18/2017	1332.98	1551.24	1444.14	1809.11	1684.19	1889.38	1851.06	1992.74	1349.07	ABANDONED	1817.1
12/4/2017	1332.72	1550.84	1443.98	1808.82	1684.04	1888.06	1850.44	1990.75	1348.05	ABANDONED	1816.1
3/12/18	1333.29	1550.72	1444.18	1807.66	1684.08	1892.78	1853.74	1996.72	1347.34	ABANDONED	1815.09
6/12/18	1333.52	1550.79	1444.35	1808.15	1684.42	1890.93	1851.65	1994.25	1346.30	ABANDONED	NM
9/18/18	1333.31	1550.69	1444.39	1807.66	1684.15	1889.01	1850.72	1992.18	1345.09	ABANDONED	NM
12/10/18	1333.53	1550.32	1444.13	1807.27	1683.91	1892.22	1851.50	1991.30	1345.95	ABANDONED	1811.72
3/25/19	1333.70	1550.14	1444.35	1807.15	1684.27	1893.71	1855.02	1999.42	1349.41	ABANDONED	1811.40
6/24/19	1334.12	1550.34	1444.53	1806.95	1684.61	1892.16	1854.04	1994.48	1346.32	ABANDONED	1810.64
9/9/19	1334.20	1550.29	1444.50	1806.72	1685.05	1890.52	1853.29	1991.82	1344.84	ABANDONED	1810.28
12/2/19	1334.29	1550.08	1444.73	1806.45	1685.17	1890.87	1854.77	1989.00	1344.69	ABANDONED	1809.57
2/17/20	1334.26	1550.03	1445.03	1806.31	1685.22	1891.75	1853.11	1994.37	1344.81	ABANDONED	1809.23
6/22/20	1334.31	1549.93	1445.29	1806.00	1685.34	1892.42	1853.81	1994.44	1344.90	ABANDONED	1808.44
9/21/20	1334.39	1549.69	1445.41	1805.63	1685.62	1890.38	1852.97	1992.43	1344.89	ABANDONED	1808.03
12/21/20	1334.11	1549.67	1445.59	1805.61	1685.83	1889.38	1852.32	1990.53	1344.66	ABANDONED	1807.74
3/4/21	1333.99	1549.38	1445.82	1805.25	1685.58	1889.97	1852.07	1989.95	1344.82	ABANDONED	1807.12
5/17/21	1334.26	1549.28	1445.93	1805.26	1685.64	1888.77	1851.81	1988.06	1346.35	ABANDONED	1806.75
9/27/21	1334.15	1549.08	1446.21	1805.01	1685.52	1887.68	1850.86	1986.06	1346.48	ABANDONED	1806.18
12/6/21	1334.16	1549.15	1446.19	1804.94	1685.57	1887.13	1850.61	1984.60	1346.76	ABANDONED	1806.04
3/14/22	1333.92	1549.03	1446.24	1804.71	1685.34	1891.93	1852.42	1995.06	1347.97	ABANDONED	1805.61
6/13/22	1334.25	1549.09	1446.41	1804.48	1685.50	1889.93	1852.07	1993.99	1347.99	ABANDONED	1805.14
9/19/22	1334.36	1549.32	1446.40	1804.30	1685.42	1888.76	1851.42	1991.24	ABANDONED	ABANDONED	1804.76
12/1/22	1333.98	1549.10	1446.18	1804.42	1685.43	1889.52	1851.45	1989.63	ABANDONED	ABANDONED	1804.50
3/20/23	1334.58	1548.98	1446.59	1804.31	1686.13	1901.73	1857.69	2004.83	ABANDONED	ABANDONED	1804.41
6/19 & 20/2023	1334.59	1548.78	1446.90	1804.11	1686.09	1893.39	1856.28	1995.32	ABANDONED	ABANDONED	1804.16

Note:
MSL = Mean Sea Level
TOC = Top of Casing
BOC = Bottom of Casing
NA = Not Available
NM = Not Measured
All wells resurveyed in 2014, except for the following: PZ-1, PZ-3, & MW-8. Well CM-5R resurveyed in 2015
*Well CM-9R3 raised in October 2021. Top of casing elevation is approximate (survey pending).

TABLE 6A
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -FIRST QUARTER 2023
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-5	MW-6	MW-13R	MW-14	DW-2	DW-3	DW-5	PZ-2	PZ-4	
		03/20/23	03/20/23	03/20/23	03/21/23	03/21/23	03/20/23	03/21/23	03/20/23	03/21/23	03/21/23	03/21/23	03/20/23	03/21/23	
Inorganic Monitoring Parameters:															
Alkalinity, total	mg/L	35	41	260	480	470	280	630	350	360	140	920	330	310	NV
Ammonia-Nitrogen	mg/L	0.16	0.83	9.0	0.10	2.7	0.17	13	0.032	3.0	0.53	0.22	3.0	3.1	NV
Chemical Oxygen Demand	mg/L	59j	29j	43j	100	100	22j	610	71j	47j	17j	64j	43j	31j	NV
Chloride	mg/L	16	11	7.7j	650	95	7.9j	100	20	10	13	18	16j	9.3j	500(2)
Total Dissolved Solids	mg/L	2800	3100	2800	6800	2400	1700	2100	5300	1900	1900	1100	4300	1900	1000(2)
Total Organic Carbon	mg/L	15	5.5	2.7	19	14	4.3	52	7.1	1.8	0.63	7.8	2.4	1.9	NV
Metals:															
Potassium, total	mg/L	9.9	9.2	13	32	18	0.85j	38	7.5	4.0	8.9	1.3j*	3.9	6.2	NV
Volatile and Semivolatile Organic Compounds:															
Carbon Disulfide	µg/L	0.32	0.32	0.32	0.32	0.32	0.32	0.99j	0.32	0.32	0.32	0.32	0.32	0.32	NV
Isobutyl alcohol	µg/L	35	35.0	35	35	35	35	35	35	35	35	66	35	35	NV
1,4-Dioxane	µg/L	0.26	0.26	0.26	2.7	1.7	0.26	6.3	0.25	0.25	0.26	0.26	0.26	1.2	NV
Toluene	µg/L	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.32j	0.14	0.14	150(1)/1000(3)
Organochlorine Pesticides, PCBs, Organophosphorous Pesticides, Herbicides: None Detected															

Notes:
(1) State of California Primary Drinking Water Standard
(2) State of California Secondary Drinking Water Standard
(3) Federal Maximum Contaminant Level
(DL) Indicates a dilution of the sample
(j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.
* - Suspected field/laboratory contaminant.

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 2023
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-5	MW-6	MW-13R	MW-14	DW-2	DW-3	DW-5	PZ-2	PZ-4	
		06/19/23	06/19/23	06/19/23	06/20/23	06/20/23	06/19/23	06/20/23	06/19/23	06/19/23	06/20/23	06/20/23	06/19/23	06/20/23	
Inorganic Monitoring Parameters:															
Alkalinity, total	mg/L	99	29	350	460	500	470	810	540	380	150	960	340	330	NV
Alkalinity, bicarbonate	mg/L	99	29	350	460	500	470	690	540	380	150	930	340	330	NV
Ammonia-Nitrogen	mg/L	1.0	0.54	9.5	4.5	2.9	0.83	9.6	0.037j	2.9	0.56	0.25	3.1	2.3	NV
Bromide	mg/L	0.27	0.041	0.041	3.9	0.87	0.73	1.2	1.8	0.041	0.041	0.12j	0.082	0.082	NV
Carbon Dioxide, free**	mg/L	96	28	310	410	450	420	700	490	340	130	840	300	290	NV
Chemical Oxygen Demand	mg/L	38j	22j	19j	100	47j	38j	520	31j	14	14	24j	14	14	NV
Chloride	mg/L	19	9.0	3.3	270	120	18	100	100	9.1	13	19j	13	7.8	500(2)
Fluoride	mg/L	1.2	1.7	1.1	2.3	1.7	0.99	0.48	1.4	0.48	0.29	3.5	0.66	1.2	2(1)-4(3)
Nitrate-Nitrogen	mg/L	0.56	2.70	0.020	0.039	0.071j	0.020	0.039	0.44	0.020	0.020	0.039	0.039	0.039	10(1,3)
Sulfate	mg/L	2500	1800	1400	1900	1400	2000	190	3200	890	1100	1.2j	2500	600	500(2)
Sulfide, total	mg/L	0.017	0.017	0.017	0.017	0.017	7.3	280	0.017	0.017	0.017	0.035j	0.017	0.017	NV
Total Dissolved Solids	mg/L	3800	3000	2700	3600	2900	3600	1300	6000	1800	1900	1100	3900	1200	1000(2)
Total Organic Carbon	mg/L	13	5.9	2.5	24	12	5.3	23	9.5	1.3	0.26	7.5	1.9	1.1	NV
Metals:															
Boron	mg/L	1.4	0.90	1.0	0.98	1.0	0.76	0.80	0.57	0.69	0.053j	2.8	1.4	0.19j	NV
Calcium	mg/L	390	260	290	490	350	410	94	590	52	310	5.7	49	150	NV
Iron**	mg/L	1.0	0.042j	2.7	50	25	0.97	0.059j	0.070j	0.79	0.60	0.16j	0.048j	1.2	0.3(2)
Magnesium	mg/L	230	160	180	220	150	220	120	400	36	110	0.95	42	85	NV
Manganese	mg/L	1.9	2.3	0.64	2.7	3.5	1.1	0.0029j	4.2	0.071	0.058	0.097	0.071	0.13	0.05(2)
Potassium, total	mg/L	13	8.8	12	35	19	5.9	30	9.2	3.5	8.9	0.91j*	3.5	4.6	NV
Sodium	mg/L	320	310	190	250	250	330	170	450	470	69	440	1200	110	NV
Volatile and Semivolatile Organic Compounds:															
t-Butanol	µg/L	3.1	3.1	3.1	3.1	3.1	3.1	3.1j	3.1	3.1	3.1	3.7j	3.1	3.1	NV
Isobutyl alcohol	µg/L	35	35	35	35	35	35	35	35	35	35	100	35	35	NV
1,4-Dioxane	µg/L	0.26	0.27	0.26	12	2.3	0.26	5.0	0.25	0.26	0.27	0.28	0.25	0.26	NV
Naphthalene	µg/L	0.32	0.32	0.32	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.72j	0.55	0.55	NV
Tetrahydrofuran	µg/L	1.1	1.1	1.1	2.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	NV
Toluene	µg/L	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.30j	0.14	0.14	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
(DL) Indicates a dilution of the sample
(j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.
* - Suspected field/laboratory contaminant.
**- Analyte also detected in a blank sample.

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 2023
SUNSHINE CANYON LANDFILL

Analyte	Units	WELL																			
		MW-1		MW-5		MW-6		MW-13R		MW-14		DW-2		DW-3		DW-5		PZ-2		PZ-4	
		3/21/2023		3/21/2023		3/20/2023		3/21/2023		3/20/2022		3/21/2023		3/21/2023		3/21/2023		3/20/2023		3/21/2023	
		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	480	844.76	470	727.34	280	571.59	630	972.24	350	587.83	360	410.47	140	162.81	920	1009.98	330	411.93	310	341.13
Ammonia-Nitrogen	mg/L	0.1	10.634	2.7	5.714	0.17	1.337	13	7.732	0.032	0.5703	3.0	4.308	0.53	0.7564	0.22	0.3918	3.0	3.598	3.1	2.976
Chemical Oxygen Demand	mg/L	100	202.056	100	135.7	22j	75.338	610	407.58	71j	54.674	47j	52.743	17j	15.206	64j	76.47	43j	26.386	31j	24.85
Chloride	mg/L	650	408.469	95	469.603	7.9j	70.829	100	213.802	20	88.987	10	15.462	13	17.534	18	101.838	16j	16.398	9.3j	11.706
Potassium, total	mg/L	32	54.763	18	34.393	0.85j	10.679	38	27.224	7.5	12.508	4.0	6.183	8.9	12.357	1.3j	5.262	3.9	4.693	6.2	5.643
Total Dissolved Solids	mg/L	6800	4495	2400	4614.2	1700	4486.5	2100	3450.9	5300	5128.5	1900	2178.3	1900	2313.1	1100	1417.3	4300	4403.2	1900	1529.5
Total Organic Carbon	mg/L	19	75.928	14	50.696	4.3	15.408	52	54.233	7.1	13.006	1.8	3.499	0.63	2.115	7.8	11.745	2.4	2.887	1.9	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.)																					
Carbon Disulfide	µg/L	0.32	1.0	0.32	1.0	0.32	1.0	0.99j	1.0	0.32	1.0	0.32	1.0	0.32	1.0	0.32	1.0	0.32	1.0	0.32	1.0
Isobutyl alcohol	µg/L	35	50	35	5.1	35	50	35	50	35	50	35	50	35	50	66	50	35	50	35	50
1,4-Dioxane	µg/L	2.7	0.37	1.7	0.38	0.26	0.38	6.3	0.38	0.25	0.37	0.25	0.37	0.26	0.38	0.26	0.38	0.26	0.37	1.2	0.38
Toluene	µg/L	0.14	0.50	0.14	0.50	0.14	0.50	0.14	0.50	0.14	0.50	0.14	0.50	0.14	0.50	0.32j	0.50	0.14	0.50	0.14	0.50

Notes:
(j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.
* Suspected laboratory contaminant

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

2500 Analyte concentration exceeds intrawell WQPS.

123.456 Well/constituent pair are currently in tracking mode

TABLE 7B
COMPARISON OF INTRAWELL WATER QUALITY PROTECTION STANDARDS TO ANALYTICAL RESULTS - SECOND QUARTER 2023
SUNSHINE CANYON LANDFILL

Analyte	Units	WELL																			
		MW-1		MW-5		MW-6		MW-13R		MW-14		DW-2		DW-3		DW-5		PZ-2		PZ-4	
		6/20/2023		6/20/2023		6/19/2023		6/20/2023		6/19/2023		6/19/2023		6/20/2023		6/20/2023		6/19/2023		6/20/2023	
		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	500	727.34	470	571.59	810	972.24	540	587.83	380	410.47	150	162.81	960	1009.98	340	411.93	330	341.13
Ammonia-Nitrogen	mg/L	4.5	10.634	2.9	5.714	0.83	1.337	9.6	7.732	0.037j	0.5703	2.9	4.308	0.56	0.7564	0.25	0.3918	3.1	3.598	2.3	2.976
Chemical Oxygen Demand	mg/L	100	202.056	47j	135.7	38j	75.338	520	407.58	31j	54.674	14	52.743	14	15.206	24j	76.47	14	26.386	14	24.85
Chloride	mg/L	270	408.469	120	469.603	18	70.829	100	213.802	100	88.987	9.1	15.462	13	17.534	19j	101.838	13	16.398	7.8	11.706
Potassium, total	mg/L	35	54.763	19	34.393	5.9	10.679	30	27.224	9.2	12.508	3.5	6.183	8.9	12.357	0.91j	5.262	3.5	4.693	4.6	5.643
Total Dissolved Solids	mg/L	3600	4495	2900	4614.2	3600	4486.5	1300	3450.9	6000	5128.5	1800	2178.3	1900	2313.1	1100	1417.3	3900	4403.2	1200	1529.5
Total Organic Carbon	mg/L	24	75.928	12	50.696	5.3	15.408	23	54.233	9.5	13.006	1.3	3.499	0.26	2.115	7.5	11.745	1.9	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	3.1	5.0	3.1	5.0	3.1	5.0	3.1j	5.0	3.1	5.0	3.1	5.0	3.1	5.0	3.7j	5.0	3.1	5.0	3.1	5.0
Isobutyl alcohol	µg/L	35	50	35	50	35	50	35	50	35	50	35	50	35	50	100	50	35	50	35	50
1,4-Dioxane	µg/L	12	0.38	2.3	0.38	0.26	0.38	5.0	0.38	0.25	0.37	0.26	0.38	0.27	0.39	0.28	0.40	0.25	0.37	0.26	0.38
Naphthalene	µg/L	0.55	1.0	0.55	1.0	0.55	1.0	0.55	1.0	0.55	1.0	0.55	1.0	0.55	1.0	0.72j	1.0	0.55	1.0	0.55	1.0
Tetrahydrofuran	µg/L	2.1	2.0	1.3	2.0	1.3	2.0	1.3	2.0	1.3	2.0	1.3	2.0	1.3	2.0	1.3	2.0	1.3	2.0	1.3	2.0
Toluene	µg/L	0.14	0.50	0.14	0.50	0.14	0.50	0.14	0.50	0.14	0.50	0.14	0.50	0.14	0.50	0.30j	0.50	0.14	0.50	0.14	0.50

Notes:
(j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.
* Suspected laboratory contaminant

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

2500 Analyte concentration exceeds intrawell WQPS.

123.456 Well/constituent pair are currently in tracking mode

TABLE 8A
SUMMARY OF ANALYTICAL RESULTS FOR VADOSE ZONE LIQUID MONITORING POINTS
FIRST QUARTER 2023
SUNSHINE CANYON LANDFILL

Analyte	Units	SUBDRAIN MONITORING POINTS		LYSIMETERS		Maximum Contaminant Level
		Subdrain N	Combined Subdrains	LY-6	LY-7	
			3/20/2023	3/21/2023	3/20/2023	
Field Parameters:						
Electrical Conductivity	mS/cm	Offline due to Construction	3.21	Dry	15.00	NV
Oxidation Reduction Potential	mV		26	Dry	-109	NV
Oxygen, dissolved	mg/L		1.83	Dry	2.61	NV
pH	Units		5.53	Dry	6.34	6.5-8.5(2)
Temperature	°C		21.87	Dry	19.76	NV
Turbidity	NTU		5.7	Dry	0.0	5(2)
General Chemistry Parameters:						
Alkalinity, total	mg/L	Offline due to Construction	210	Dry	2500	NV
Ammonia-Nitrogen	mg/L		1.3	Dry	290	NV
Chemical Oxygen Demand	mg/L		57j	Dry	1000	NV
Chloride	mg/L		15	Dry	2700	500(2)
Total Dissolved Solids	mg/L		3300	Dry	9400	1000(2)
Total Organic Carbon	mg/L		14	Dry	320	NV
Metals						
Potassium	mg/L	Offline due to Construction	15	Dry	210	NV
Volatile and Semivolatile Organic Compounds:						
Benzene	µg/L	Offline due to Construction	0.61	Dry	4.3	1(1)-5(3)
t-Butanol	µg/L		3.1	Dry	660	NV
Chlorobenzene	µg/L		0.14j	Dry	0.47	70(1)-100(3)
cis-1,2-Dichloroethene	µg/L		0.46j	Dry	1.5j	6(1)-70(3)
1,4-Dichlorobenzene	µg/L		2.7	Dry	6.7	5(1)-75(3)
1,4-Dioxane	µg/L		0.26	Dry	140	NV
Ethylbenzene	µg/L		0.25j	Dry	0.66	300(1)
Methyl tert-butyl ether	µg/L		0.24j	Dry	0.79j	13(1)/5(2)
Tetrahydrofuran	µg/L		1.3	Dry	12	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.
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 2023
SUNSHINE CANYON LANDFILL

Analyte	Units	SUBDRAIN MONITORING POINTS		LYSIMETERS		Maximum Contaminant Level
		Subdrain N	Combined Subdrains	LY-6	LY-7	
			6/20/2023	6/20/2023	6/20/2023	
Field Parameters:						
Electrical Conductivity	mS/cm	Offline due to Construction	4.14	Dry	6.31	NV
Oxidation Reduction Potential	mV		8.0	Dry	-40	NV
Oxygen, dissolved	mg/L		1.39	Dry	2.37	NV
pH	Units		5.89	Dry	6.74	6.5-8.5(2)
Temperature	°C		24.45	Dry	25.33	NV
Turbidity	NTU		3.1	Dry	0.0	5(2)
General Chemistry Parameters:						
Alkalinity, total	mg/L	Offline due to Construction	520	Dry	2300	NV
Alkalinity, bicarbonate	mg/L		520	Dry	2300	NV
Ammonia-Nitrogen	mg/L		3.7	Dry	19	NV
Bromide	mg/L		1.0	Dry	0.082	NV
Carbon dioxide*	mg/L		790	Dry	2100	NV
Chemical Oxygen Demand	mg/L		110	Dry	240	NV
Chloride	mg/L		65	Dry	490	500(2)
Fluoride	mg/L		1.6	Dry	0.64	2(1)-4(3)
Nitrate as Nitrogen	mg/L		0.039	Dry	0.039	10(1,3)
Sulfate	mg/L		1700	Dry	580	500(2)
Sulfide, total	mg/L		0.084	Dry	0.017	NV
Total Dissolved Solids	mg/L		3600	Dry	4300	1000(2)
Total Organic Carbon	mg/L		31	Dry	72	NV
Metals						
Boron	mg/L	Offline due to Construction	0.93	Dry	6.7	NV
Calcium	mg/L		440	Dry	200	NV
Iron	mg/L		49	Dry	0.30j	0.3(2)
Magnesium	mg/L		220	Dry	170	NV
Manganese	mg/L		8.8	Dry	1.9	0.05(2)
Potassium	mg/L		16	Dry	37	NV
Sodium	mg/L		230	Dry	1100	NV
Volatile and Semivolatile Organic Compounds:						
Benzene	µg/L	Offline due to Construction	1.3	Dry	1.2	1(1)-5(3)
Chlorobenzene	µg/L		0.39j	Dry	0.29j	70(1)-100(3)
cis-1,2-Dichloroethene	µg/L		1.2	Dry	1.3	6(1)-70(3)
1,4-Dichlorobenzene	µg/L		6.1	Dry	1.8	5(1)-75(3)
1,4-Dioxane	µg/L		5.2	Dry	18	NV
Ethylbenzene	µg/L		0.21j	Dry	0.66	300(1)
Methyl tert-butyl ether	µg/L		0.69	Dry	2.1	13(1)/5(2)
Tetrahydrofuran	µg/L		1.4j	Dry	2.5	NV
Trichloroethene	µg/L		0.18j	Dry	0.15	5(1,3)

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 2023 MONITORING PERIOD
SUNSHINE CANYON LANDFILL

Probe ID	Interval	Depth (ft bgs)	1/24/2023 - 1/26/2023	2/21/2023 - 2/23/2023	3/23/2023 - 3/28/2023	4/18/2023 - 4/26/2023	5/23/2023 - 5/30/2023	6/20/2023 - 6/23/2023
P-202	A	10-15	Removed Due to Construction					
	B	25-30						
	C	40-45						
P-202R	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-203	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-205R	A	6-11	0.0	0.0	0.2	0.0	0.0	0.0
	B	20-25	0.0	0.0	0.2	0.0	0.0	0.0
	C	33-38	1.1	1.0	1.1	0.5	1.9	2.0
	D	48-53	2.1	1.0	3.0	1.4	2.8	3.3
	E	62-67	0.0	0.0	0.2	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	0.0	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	0.1	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	0.4	0.0
	C	40-45	0.0	0.0	0.0	0.0	0.0	0.0
P-210	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	0.0	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	0.1	0.0	0.0	0.1
	C	39-47	0.0	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	0.1
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	0.1
	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	0.1
P-216	A	8-15	0.0	0.0	0.0	0.0	0.0	0.1
	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	0.1
	B	16-21	0.0	0.0	0.0	0.0	0.0	0.1

NR - No reading available.

TABLE 9, CONTINUED
SUMMARY OF METHANE CONCENTRATIONS FOR VADOSE ZONE GAS MONITORING POINTS
FIRST SEMIANNUAL 2023 MONITORING PERIOD
SUNSHINE CANYON LANDFILL

Probe ID	Interval	Depth (ft bgs)	1/24/2023 - 1/26/2023	2/21/2023 - 2/23/2023	3/23/2023 - 3/28/2023	4/18/2023 - 4/26/2023	5/23/2023 - 5/30/2023	6/20/2023 - 6/23/2023
P-218R	A	5-8	0.0	0.1	0.0	0.0	0.0	0.0
	B	26.5-30	0.0	0.0	0.0	0.0	0.0	0.0
	C		0.0	0.0	0.0	0.0	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	0.1	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	0.0	0.0	0.1	0.0
	B	49-58	0.0	0.0	0.0	0.0	0.0	0.0
	C	91-101	0.0	0.0	0.0	0.0	0.0	0.0
	D	134-143	0.0	0.0	0.0	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	0.0	0.6	0.0	0.7	0.1	0.0
	E	173-181	0.0	0.0	0.0	0.6	0.9	0.7
P-223	A	7-15	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
	D	78-88	0.0	0.0	0.0	0.0	0.0	0.0
	E	100-113	0.0	0.0	0.0	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	0.0	0.0	0.2	0.0
	C	115-125	0.0	0.6	0.0	0.0	0.5	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	0.2	0.5	0.7	0.9
	B	65-73	0.0	0.0	0.0	0.2	0.0	0.0
	C	124-133	0.0	0.0	0.2	0.1	0.2	0.7
	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	0.1

NR - No reading available.

TABLE 9, CONTINUED
SUMMARY OF METHANE CONCENTRATIONS FOR VADOSE ZONE GAS MONITORING POINTS
FIRST SEMIANNUAL 2023 MONITORING PERIOD
SUNSHINE CANYON LANDFILL

Probe ID	Interval	Depth (ft bgs)	1/24/2023 - 1/26/2023	2/21/2023 - 2/23/2023	3/23/2023 - 3/28/2023	4/18/2023 - 4/26/2023	5/23/2023 - 5/30/2023	6/20/2023 - 6/23/2023
P-227	A	6-15	0.0	0.0	0.0	0.0	0.0	0.1
	B	46-55	0.0	0.0	0.1	0.8	0.9	0.8
	C	85-95	0.0	0.0	0.0	0.4	0.1	0.2
	D	126-134	0.0	0.0	0.0	0.1	0.0	0.1
	E	164-172	0.0	0.0	0.0	0.0	0.0	0.1
P-228	A	7-14	0.0	0.0	0.0	0.0	0.0	0.1
	B	56-65	0.0	0.0	0.0	0.0	0.0	0.1
	C	107-115	0.0	0.4	0.0	0.8	0.7	0.1
	D	156-165	0.0	0.0	0.0	0.1	0.0	0.1
	E	203-214	0.0	0.0	0.0	0.0	0.0	0.0
P-229	A	4-15	0.0	0.0	0.0	0.0	0.0	0.1
	B	42-50	0.0	0.0	0.0	0.0	0.0	NR
	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	NR
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	0.2	0.1
	B	47-52	0.0	0.0	0.0	0.0	0.1	0.1
	C	78-83	0.0	0.0	0.0	0.0	0.0	0.1
	D	109-114	0.0	0.0	0.1	0.0	0.0	0.1
	E	140-145	0.0	0.0	0.0	0.0	0.0	0.1
P-240	A	10-15	0.0	0.0	0.0	0.0	0.2	0.1
	B	69-74	0.0	0.0	0.0	0.0	0.2	0.0
	C	133-138	0.0	0.0	0.2	0.0	0.3	0.6
	D	206-211	0.0	0.0	0.1	0.0	0.1	0.1
	E	268-273	0.1	0.0	0.0	0.0	0.3	0.3
P-241	A	10-15	0.0	0.0	0.1	0.0	0.0	0.0
	B	37-42	0.0	0.0	0.1	0.0	0.0	0.0
	C	61-66	0.0	0.0	0.1	0.0	0.0	0.0
	D	85-90	0.0	0.0	0.1	0.0	0.0	0.0
	E	109-114	0.0	0.0	0.1	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	0.0	0.0	0.1	0.6	0.9	0.9
	B	20-29	0.0	0.0	0.1	0.0	0.0	0.0
	C	33-38	0.0	0.0	0.0	0.3	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	0.1	0.0	0.0	0.1	0.2
	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 2023 MONITORING PERIOD
SUNSHINE CANYON LANDFILL

Probe ID	Interval	Depth (ft bgs)	1/24/2023 - 1/26/2023	2/21/2023 - 2/23/2023	3/23/2023 - 3/28/2023	4/18/2023 - 4/26/2023	5/23/2023 - 5/30/2023	6/20/2023 - 6/23/2023
P-245	A	6-11	0.0	0.0	0.0	0.0	0.0	0.0
	B	20-25	0.3	0.0	1.9	0.3	3.3	3.4
	C	35-40	0.5	0.2	0.5	0.4	0.4	0.3
	D	50-55	0.0	0.0	0.0	0.0	0.1	0.2
	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
	P-204D		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 SEMIANNUAL 2023 MONITORING PERIOD
SUNSHINE CANYON LANDFILL

Analyte	Units	Stormwater 1/3/2023	Stormwater 2/27/2023	Stormwater 5/4/2023
General Chemistry Parameters:				
Ammonia-Nitrogen	mg/L	0.40j	2.0	2.1
Biochemical Oxygen Demand	mg/L	6.5	26	34
Chemical Oxygen Demand	mg/L	70	330	430
Chloride	mg/L	13	20	32
Fluoride	mg/L	0.55	0.46	0.74
Nitrate as N	mg/L	1.2	2.7	1.4
Nitrite as N	mg/L	0.37	0.54	0.24
Nitrate+Nitrite as N	mg/L	1.6	3.2	1.6
Oil & Grease (HEM)	mg/L	0.49	1.0	0.85j
pH	SU	7.70	7.76	7.55
Total Suspended Solids	mg/L	100	1600	3300
Metals:				
Aluminum	mg/L	2.8	17	67
Antimony†	mg/L	0.0015j	0.0010j	0.0036
Arsenic	mg/L	0.0028	0.012	0.029
Beryllium	mg/L	0.00026	0.0012	0.0021
Cadmium	mg/L	0.00076j	0.0065	0.0079
Copper	mg/L	0.0084	0.033	0.11
Iron	mg/L	3.7	70	110
Lead	mg/L	0.0041	0.020	0.092
Manganese†	mg/L	0.61	2.2	2.8
Mercury	mg/L	0.00012	0.00025	0.00028
Nickel	mg/L	0.028	0.12	0.14
Phosphorus	mg/L	0.18	1.3	3.7
Selenium	mg/L	0.0017j	0.0056	0.0076
Silver	mg/L	0.00023	0.00023	0.0014
Zinc	mg/L	0.032	0.33	0.51
Volatile Organic Compounds (8260B):				
Acrylonitrile	µg/L	2.0	8.0	2.0
Alpha-Terpineol	µg/L	2.3	2.4	2.3
Benzene	µg/L	0.14	0.55	0.14
Ethylbenzene	µg/L	0.16	0.66	0.16
Toluene	µg/L	0.14	0.57	0.14
Trichloroethene	µg/L	0.15	0.61	0.15
Semivolatile Organic Compounds (8270C):				
Benzoic Acid†	µg/L	5.2	49	67
Butyl Benzyl Phthalate	µg/L	3.5	3.5	3.5
m+p-Cresol	µg/L	2.6	8.8j	5.5j
Dimethyl Phthalate	µg/L	1.5	1.5	1.5
Fluoranthene	µg/L	2.0	2.0	2.1
Phenol	µg/L	0.87	5.4j	1.4j
Pyrene	µg/L	2.1	2.1	2.1
Polychlorinated Biphenyls (608.3): None detected.				

Notes:
(H) Indicates sample was received and analyzed past holding time.
(j) Indicates a trace concentration between the Method Detection Limit and the Practical Quantitation Limit.
(†) Indicates compound was also found in the method blank.

0.25	Analyte was not detected. Value listed is the Method Detection Limit.
NA	Analyte was not analyzed.
49	Analyte was detected. Value reported by laboratory.

TABLE 11
SUMMARY OF ANALYTICAL RESULTS FOR LEACHATE MONITORING POINTS
APRIL 2023
SUNSHINE CANYON LANDFILL

Analyte	Units	LEACHATE MONITORING POINTS	
		LR-2R	DEEP LEACHATE
		4/14/2023	4/14/2023
Organochlorine Pesticides (8081):			
Endosulfan I	µg/L	0.0077	0.0077
Endosulfan Sulfate	µg/L	0.0082	NA

Notes:

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

TABLE 12
SUMMARY OF COLLECTED WATER SOURCES - 2023
SUNSHINE CANYON LANDFILL

Month	Total Purchase Water	Subdrains	Landfill Leachate	Landfill Gas Condensate	Seep Collectors	Terminal Berm Underdrain Sump	MONTHLY TOTALS
January	4,342,888	1,441,505	500,178	1,026,241	136,357	0	7,447,169
February	4,259,860	1,251,258	423,031	884,214	51,542	113	6,870,018
March	2,511,036	2,001,262	599,718	1,058,325	224,063	1,292	6,395,696
April	5,480,596	1,743,819	380,453	941,041	378,324	347,848	9,272,081
May	6,250,288	1,556,592	562,755	1,282,765	132,369	226,032	10,010,801
June	6,774,636	589,886	456,454	1,536,534	65,077	386,276	9,808,863
JANUARY - JUNE 2023 TOTAL:	**29,619,304**	**8,584,322**	**2,922,589**	**6,729,120**	**987,732**	**961,561**	**49,804,628**

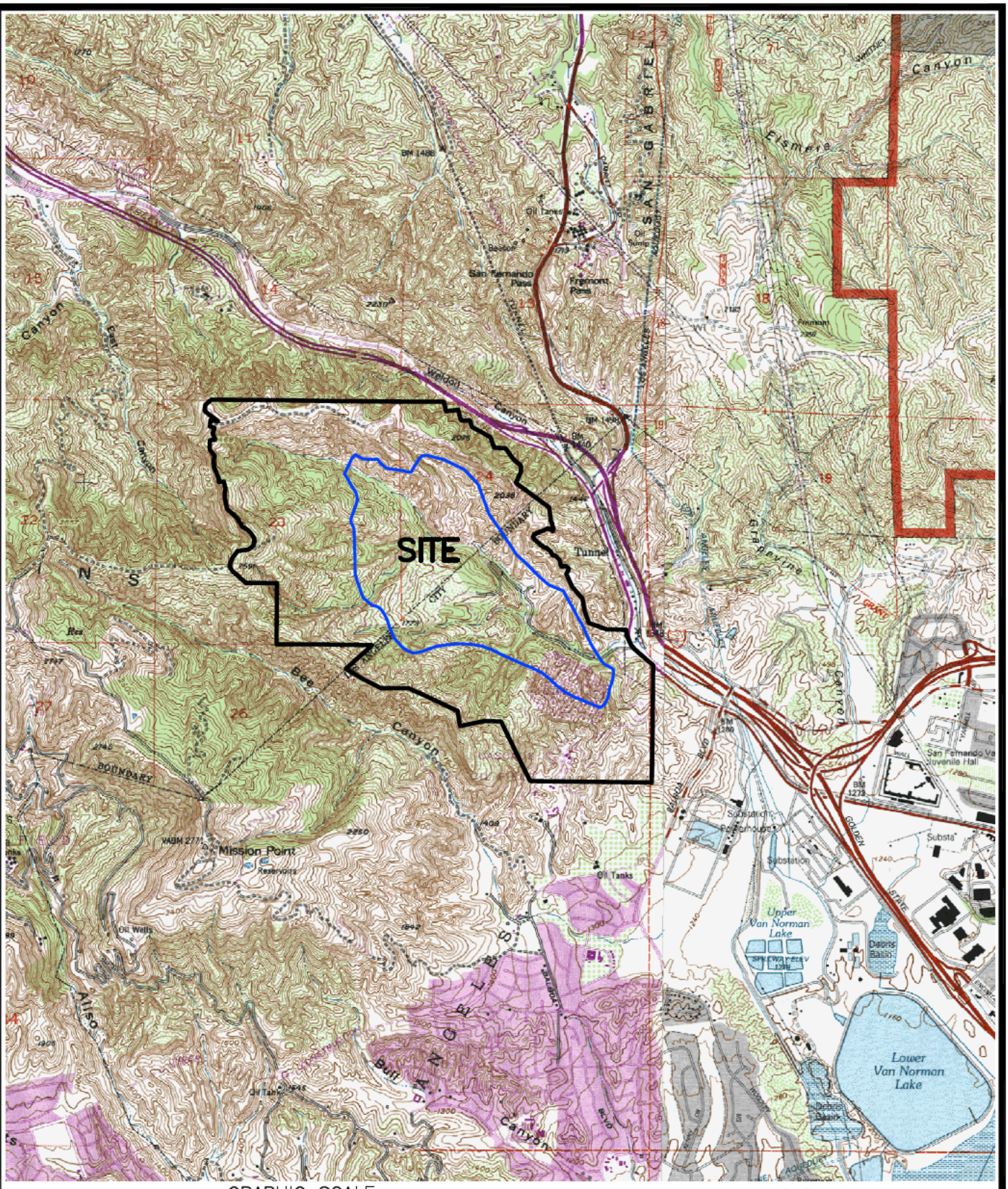
Geo-Logic ASSOCIATES

TABLE 13
SUNSHINE CANYON LANDFILL
IMPORTED SOIL SAMPLING SUMMARY - FIRST SEMIANNUAL 2023 MONITORING PERIOD

GENERATOR	SAMPLER	WASTE TYPE	QUANTITY	CONSTITUENTS ANALYZED
Roofmaster Products, Inc.	No Samples Taken	Roofing Asphalt	70 Drums	No Samples Taken
Stericycle, Inc.	No Samples Taken	Treated & Sterilized Medical Waste	35,000 Tons	No Samples Taken
Medical Waste Services LLC	No Samples Taken	Treated Medical Waste, Treated APHIS Foreign Garbage, FDA Confiscated Materials	2,100 Tons	No Samples Taken
Los Angeles Unified School District	No Samples Taken	Non Haz Soil	3,400 Cubic Yards	No Samples Taken
L & T Meat Company	No Samples Taken	Railroad Ties	13 Tons	No Samples Taken
Raul Alvarez	No Samples Taken	Weathered Wood	3 Tons	No Samples Taken
San Fernando Police Department	No Samples Taken	Marijuana	1,000 Pounds	No Samples Taken
Maxim Crane	No Samples Taken	Treated Wood	40 Cubic Yards	No Samples Taken
Schwans Consumer Brands	No Samples Taken	Frozen Foods(Expired)	25,000 Pounds	No Samples Taken
Ventura Transfer Company	No Samples Taken	Treated Wood Waste	2 Tons	No Samples Taken
City of Long Beach Harbor Department	No Samples Taken	Weathered Wood	10 Tons	No Samples Taken
City of Redondo Beach	No Samples Taken	Weathered Wood	220 Tons	No Samples Taken
National Recovery	No Samples Taken	Consumer Size Packaged Candy	15 Tons	No Samples Taken
Robben Wholesale Distribution	No Samples Taken	Food Yams	4 Tons	No Samples Taken
Pacific Park Santa Monica Pier	No Samples Taken	Weathered Wood	40 Cubic Yards	No Samples Taken
Maneri Traffic Control	No Samples Taken	Treated Wood Waste	12,000 Pounds	No Samples Taken
William Steckbauer	No Samples Taken	Weathered Wood	1 Tons	No Samples Taken
Alhambra Police Department	No Samples Taken	Marijuana	500 Pounds	No Samples Taken
Security Paving Company	No Samples Taken	Weathered Wood	10 Cubic Yards	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 alphalt, treated wood, etc). Special waste decision changed/recertified to extend expiration date, account for increases in volume estimates, or to change to ongoing disposal.
Assumptions:
Cubic Yard of Cured Asphalt = 3780 Pounds
Cubic Yard of Weathered Wood = 1134 Pounds
Cubic Yard of Cigarettes = 700 Pounds
Cubic Yard of Soil = 2000 Pounds

FIGURES



GRAPHIC SCALE

1500 0 750 1500 3000

(in feet)

FIGURE 1

SITE LOCATION MAP

FIRST SEMIANNUAL 2023 MONITORING REPORT
SUNSHINE CANYON LANDFILL
LOS ANGELES, CALIFORNIA

Geo-Logic ASSOCIATES

DRAFTER/PM: VL/KW	DATE: AUGUST 2023	JOB NO. SO22.1227

N

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

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GRAPHIC SCALE
350 0 175 350 700
(in feet)

N

EXPLANATION:

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE LIMIT OF REFUSE
- 1650 EXISTING GRADE CONTOUR
- APPROXIMATE LOCATION OF SANTA SUSANA FAULT
- APPROXIMATE LOCATION OF FUTURE GROUNDWATER MONITORING WELL (BEDROCK)
- GROUNDWATER MONITORING WELL (SHALLOW)
- GROUNDWATER MONITORING WELL (BEDROCK)
- ABANDONED GROUNDWATER MONITORING WELL
- SURFACE WATER MONITORING POINT
- SUBDRAIN MONITORING POINT
- LYSIMETER MONITORING POINT
- LEACHATE MONITORING POINT
- LEACHATE SUMP
- TERMINAL BERM UNDERDRAIN SUMP

CM-9R3
CM-10
CM-10R
LY-6
CM-17
CM-17R
CM-15
CM-16R
CM-16
LEACHATE
PZ-1
CM-11R
LY-7
DEEP LEACHATE
CM-5R
CM-5
COUNTY OF LOS ANGELES
CITY OF LOS ANGELES
CA-L
LR-2
PZ-2
MW-14
DW-6
DW-1
MW-9
MW-8
DW-7
MW-5
PZ-3
PZ-4
DW-2
DW-3

SCALE: 1"=100'
MW-6
MP-1
MW-13R
MW-1
DW-5

DW-4
MW-2A
MW-2B
SUBDRAIN-N

SCALE: 1"=100'

BASE TOPOGRAPHY DATED 2/13/2020

FIGURE 2

SITE MONITORING POINTS LOCATION MAP

FIRST SEMIANNUAL 2023 MONITORING REPORT
SUNSHINE CANYON LANDFILL
LOS ANGELES, CALIFORNIA

Geo-Logic ASSOCIATES

DRAFTER/PM: VL/KW	DATE: AUGUST 2023	JOB NO. SO22.1227

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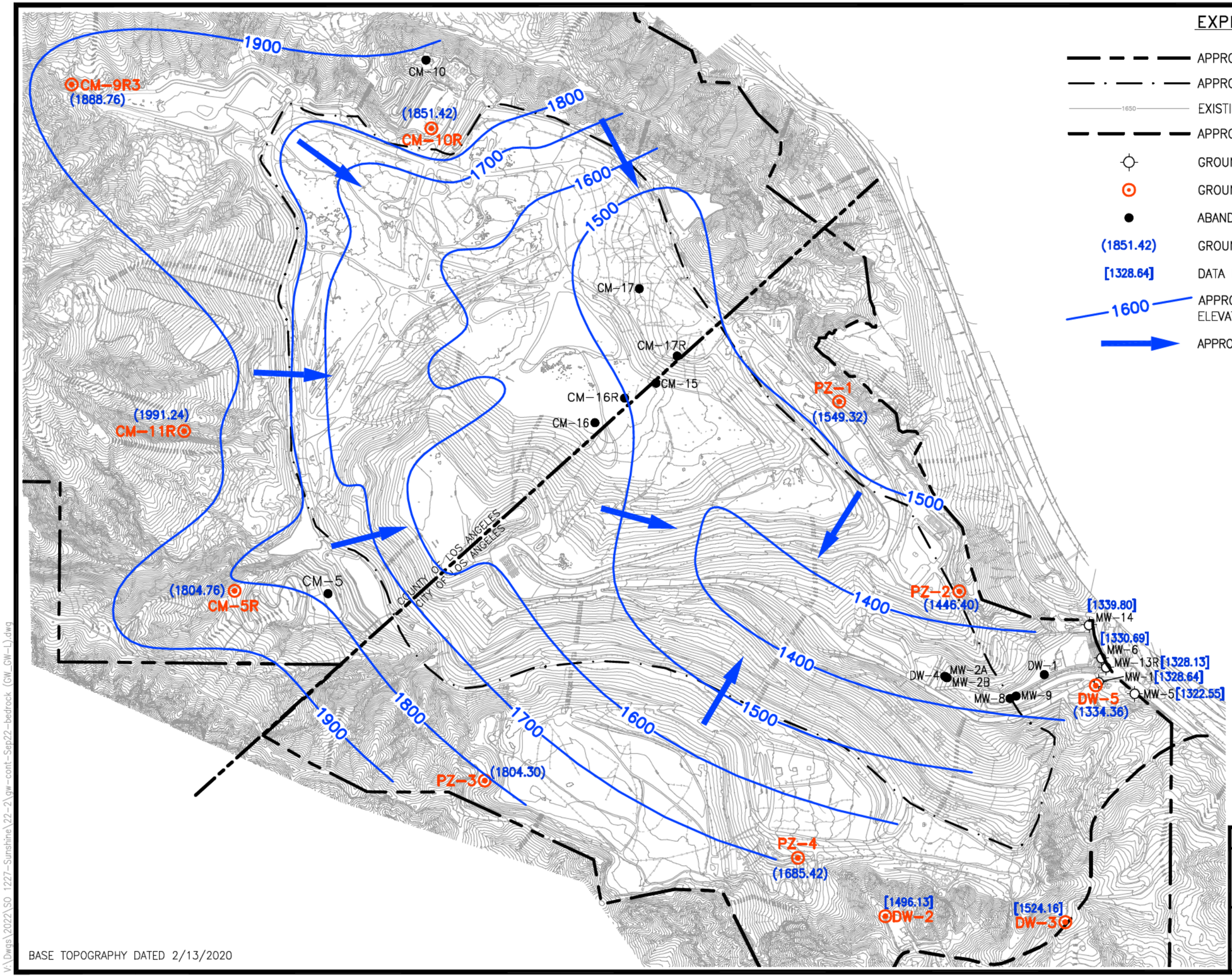

BASE TOPOGRAPHY DATED 2/13/2020

FIGURE 3A

SEPTEMBER 2022 GW EQUIPOTENTIAL CONTOURS (BEDROCK)

SECOND SEMIANNUAL 2022 MONITORING REPORT
SUNSHINE CANYON LANDFILL
LOS ANGELES, CALIFORNIA

Geo-Logic ASSOCIATES

DRAFTER/PM: VL/KW	DATE: FEBRUARY 2023	JOB NO. SO22.1227

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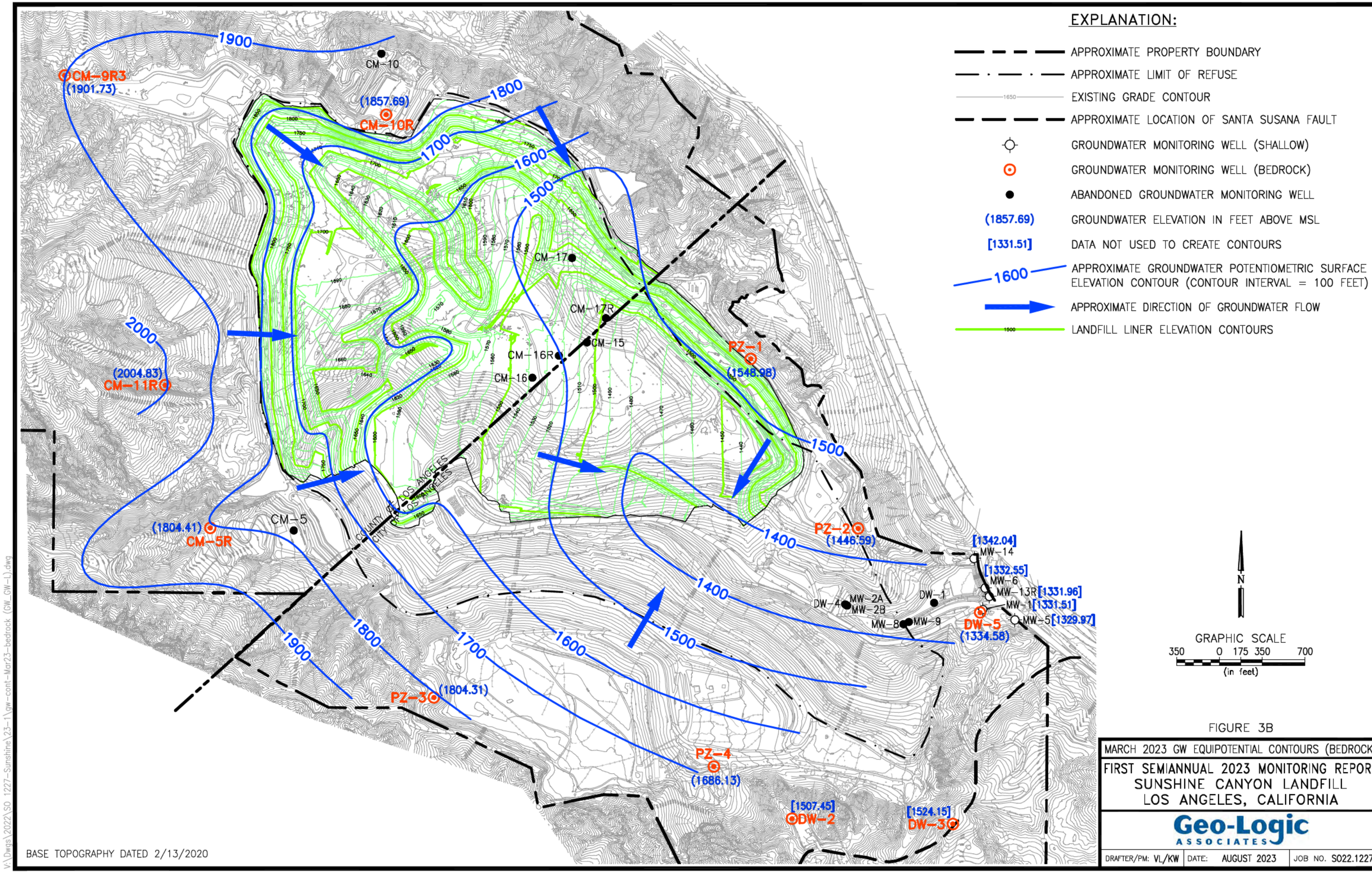

BASE TOPOGRAPHY DATED 2/13/2020

FIGURE 3B

MARCH 2023 GW EQUIPOTENTIAL CONTOURS (BEDROCK)

FIRST SEMIANNUAL 2023 MONITORING REPORT
SUNSHINE CANYON LANDFILL
LOS ANGELES, CALIFORNIA

Geo-Logic ASSOCIATES

DRAFTER/PM: VL/KW	DATE: AUGUST 2023	JOB NO. SO22.1227

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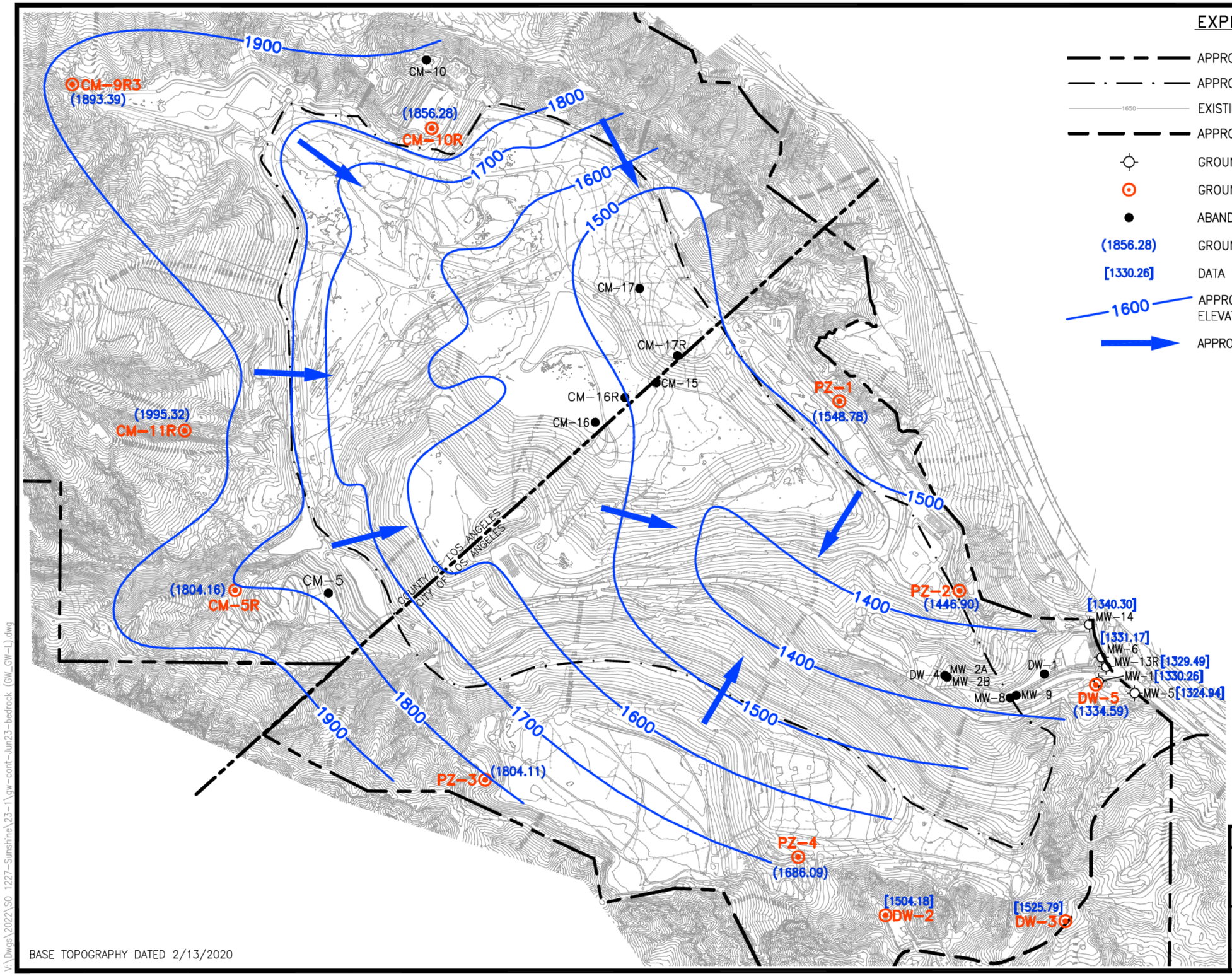

EXPLANATION:

- 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
- (1856.28) GROUNDWATER ELEVATION IN FEET ABOVE MSL
- [1330.26] DATA NOT USED TO CREATE CONTOURS
- 1600 APPROXIMATE GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION CONTOUR (CONTOUR INTERVAL = 100 FEET)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

N

GRAPHIC SCALE
350 0 175 350 700
(in feet)

FIGURE 3C

JUNE 2023 GW EQUIPOTENTIAL CONTOURS (BEDROCK)

FIRST SEMIANNUAL 2023 MONITORING REPORT
SUNSHINE CANYON LANDFILL
LOS ANGELES, CALIFORNIA

Geo-Logic ASSOCIATES

DRAFTER/PM: VL/KW	DATE: AUGUST 2023	JOB NO. S022.1227

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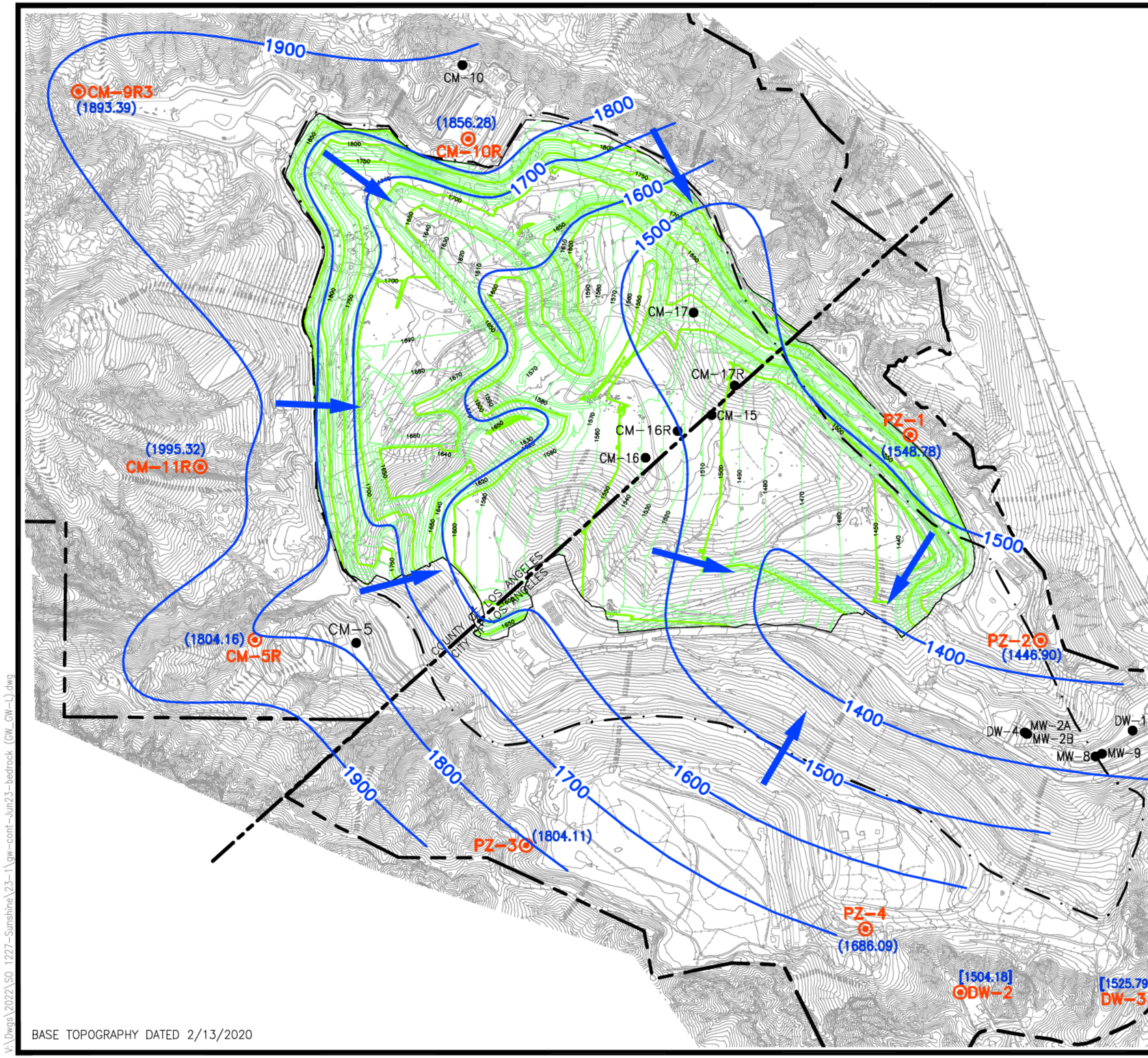

EXPLANATION:

- 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
- (1856.28) GROUNDWATER ELEVATION IN FEET ABOVE MSL
- [1330.26] DATA NOT USED TO CREATE CONTOURS
- 1600 APPROXIMATE GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION CONTOUR (CONTOUR INTERVAL = 100 FEET)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- 1500 LANDFILL LINER ELEVATION CONTOURS

N

GRAPHIC SCALE
350 0 175 350 700
(in feet)

FIGURE 3D

JUNE 2023 GW EQUIPOTENTIAL CONTOURS (BEDROCK)

FIRST SEMIANNUAL 2023 MONITORING REPORT
SUNSHINE CANYON LANDFILL
LOS ANGELES, CALIFORNIA

Geo-Logic ASSOCIATES

DRAFTER/PM: VL/KW	DATE: AUGUST 2023	JOB NO. SO22.1227

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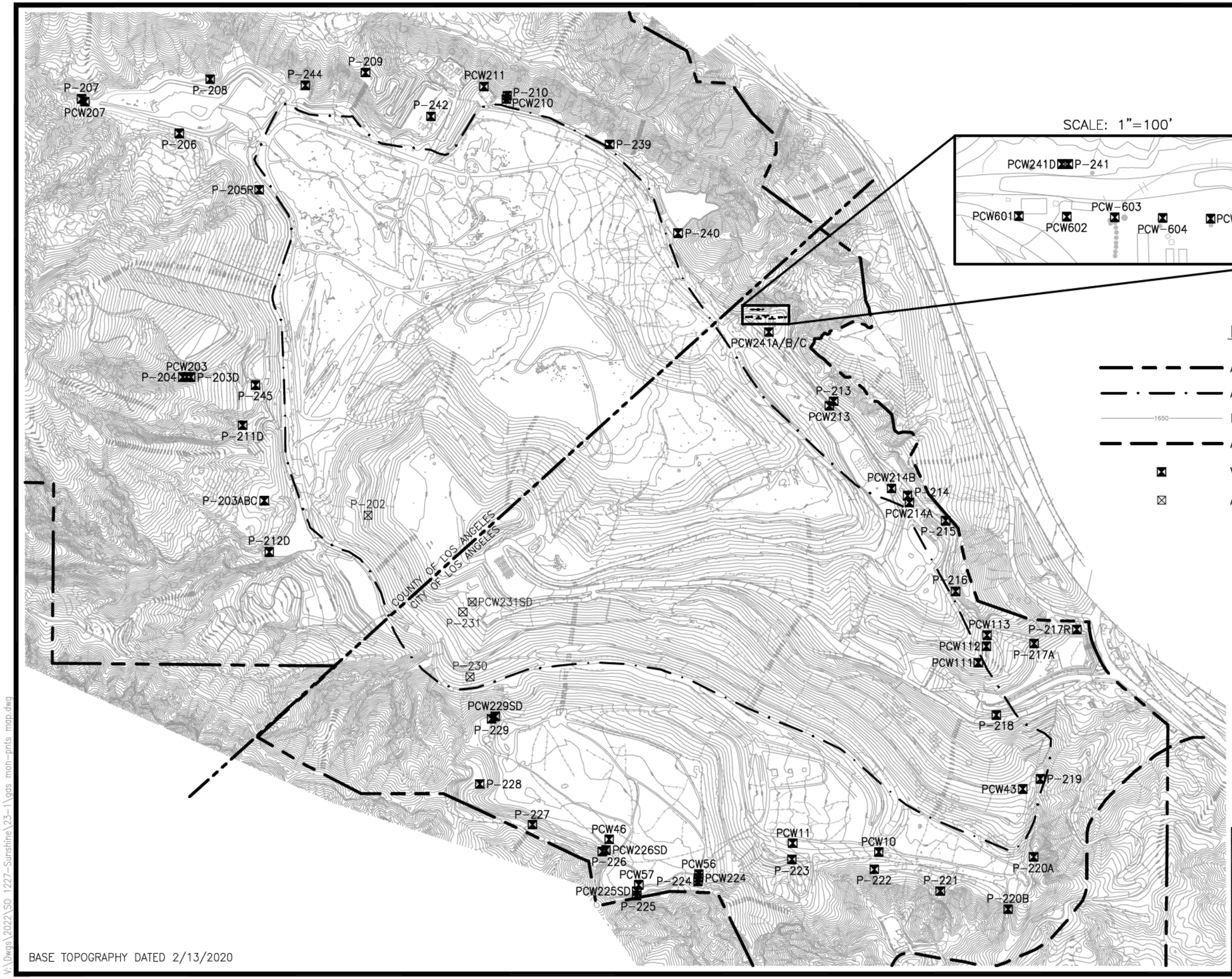

BASE TOPOGRAPHY DATED 2/13/2020

FIGURE 4

VADOSE ZONE GAS MONITORING POINT LOCATION MAP

FIRST SEMIANNUAL 2023 MONITORING REPORT
SUNSHINE CANYON LANDFILL
LOS ANGELES, CALIFORNIA

Geo-Logic ASSOCIATES

DRAFTER/PM: VL/KW	DATE: AUGUST 2023	JOB NO. SO22.1227

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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.

- 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.

- 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 4ºC) 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 4ºC) 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-gallong 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^{o}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

Geo-Logic
ASSOCIATES

Geo-Logic ASSOCIATES

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* Retest

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	S022.1227
Well I.D.:	MW-1	**Sampling Date:**	1-25-23
Collected By:	CV	**Purge start Time:**	1112
Casing Diameter (inches):	4	**Purge Stop time:**	1130
Starting Water Level:	13.44	**Sampling (Well Recovery) Time:**	A: 1135 B: 1140
Total Depth (feet):	28.85	**Ending Water Level (feet):**	13.47
Water column (feet):	15.41	**Total Purged (gallons):**	2 3/4 +
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 WGAP66RS		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1118	1	13.45	6.73	6.00	217	1.40	21.97	73
1121	1 1/2	13.47	6.75	6.00	265	1.10	22.04	83
1124	2	13.47	6.76	6.00	274	1.03	22.06	85
1126	2 1/4	"	6.76	5.98	304	1.01	22.09	84
1128	2 1/2	"	6.77	5.98	305	1.01	22.11	84
1130	2 3/4	"	6.77	5.97	303	1.01	22.14	82

Purge Sampling Rates: 20 PSI Refill 30 D/S Charge 9

Well condition: OK

Additional Info/Comments: SUNNY, cool, windy, Heavy Traffic West of well
Purge water has very Heavy orange color. samples Have orange Tint.

Name: Christian Valenzuela **Signature:** Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-1 Date: 1-25-23

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: Pipes and Debris ground well.

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: _____

Measurment 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 1-25-23

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1227
Well I.D.:	MW-13R	**Sampling Date:**	1-25-23
Collected By:	CV	**Purge start Time:**	1219
Casing Diameter (inches):	4	**Purge Stop time:**	1254
Starting Water Level:	14.90	**Sampling (Well Recovery) Time:**	A: 1258 B: 1302
Total Depth (feet):	28.47	**Ending Water Level (feet):**	15.29
Water column (feet):	13.57	**Total Purged (gallons):**	1 3/4
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 WGPB6RG	*Blanks Taken Here	

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
12.24	1/2	15.13	7.31	2.67	420	14.76	23.51	-385
1234	3/4	15.18	7.29	2.67	427	14.49	2354	-390
12.39	1	15.22	7.28	2.66	417	13.82	23.54	-392
1244	1 1/4	15.25	7.28	2.65	418	12.44	23.51	-394
1249	1 1/2	15.27	7.28	2.65	417	12.39	23.52	-394
1254	1 3/4	15.29	7.29	2.65	416	12.33	23.52	-394

Purge Sampling Rates: 30 PSI Refill 30 Discharge 6

Well condition: OK, Required carrying sampling equipment and containers to well, Heavy Traffic next to well!

Additional Info/Comments: Clear, Cool, Windy, Well Has odor!

Name: Christian Valenzuela **Signature:** Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: SunShine canyon Well ID: MW-13R Date: 1-25-23

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: Required carrying Equipment to well, piled up Dirt next To well

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

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

Remarks: piled up Dirt next to concrete.

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: outer casing is corroded

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment 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 1-25-23

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CANYON	**Project No.:**	5022.1227
Well I.D.:	P2-2	**Sampling Date:**	1/25/2023
Collected By:	NR	**Purge start Time:**	1005
Casing Diameter (inches):	2	**Purge Stop time:**	1033
Starting Water Level:	120.19	**Sampling (Well Recovery) Time:**	A: 1038 B: 1043
Total Depth (feet):	157.53	**Ending Water Level (feet):**	126.37
Water column (feet):	37.34	**Total Purged (gallons):**	2
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52/DUAL V06		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1012	1/2	122.08	8.35	5.61	0.8	0.00	23.50	-61
1019	1	123.85	8.52	5.64	0.4	0.00	23.59	-56
1026	1 1/2	125.31	8.53	5.64	0.0	0.00	23.73	-50
1029	1 3/4	125.98	8.52	5.63	0.0	0.00	23.75	-48
1033	2	126.37	8.52	5.64	0.0	0.00	23.77	-47

Purge Sampling Rates: 80 PSI REFILL (3") DISCHARGE (20)

WATER CLEAR WITH ~~FAINT~~ (NO) ODOR. DEVELOPING THROUGH PURGE (SULFUR)

Well condition: OK - CARRIED SAMPLING EQUIPMENT ACROSS CONCRETE CHANNEL TO ACCESS WELL. SMALL LANDSLIDE OF SLOPE NW OF WELL, STAGING WATER/MUD IN CORROGATED PIPE THAT WELL SITS IN.

Additional Info/Comments: SUNNY, CLEAR, WINDY

Name: NICHOLAS REASON **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: SUNSHINE CANYON Well ID: P2-2 Date: 1/25/2023

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: REQUIRES CARRYING EQUIPMENT AND CONTAINERS ACROSS CONCRETE CHANNEL TO ACCESS WELL

Concrete Pad:

Integrity: Good: _____ Inadequate: _____ N/A

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

Remarks: NO CONCRETE PAD. STANDING WATER INSIDE OF CORROGATED PIPE THAT METAL RISER OF WELL IS INSIDE.

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: _____

Measurment 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: _____ FIELD TECH III 1/25/2023

Signed Title Date

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* RETEST *

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CANYON	**Project No.:**	S022.1227
Well I.D.:	PZ-4	**Sampling Date:**	1/25/2023
Collected By:	NR	**Purge start Time:**	1137
Casing Diameter (inches):	2	**Purge Stop time:**	1158
Starting Water Level:	110.63	**Sampling (Well Recovery) Time:**	A: 1203 B: 1208
Total Depth (feet):		**Ending Water Level (feet):**	113.42
Water column (feet):		**Total Purged (gallons):**	2¼+
Screen Length (feet):		**Duplicate Sample:**	YES (NO)
Sample Method:	~~Micro Purge~~ Low Flow		
Horiba Model S/N:	U-52/DLLCYV06		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1142	½	112.37	6.62	1.81	25.3	0.00	23.53	-26
1146	1	112.71	6.51	1.72	2.6	0.00	23.46	-60
1151	1½	113.16	6.49	1.67	2.8	0.00	23.44	-64
1153	1¾	113.28	6.48	1.67	2.5	0.00	23.43	-64
1155	2	113.40	6.48	1.67	2.4	0.00	23.41	-63
1158	2¼	113.42	6.48	1.66	2.4	0.00	23.42	-64

Purge Sampling Rates: 95 PSI REFILL (3s) DISCHARGE (19)

Well condition: OK - WATER CLEAR WITH NO ODOR

Additional Info/Comments: SUNNY, mild temp (68°F), windy

Name: NICHOLAS REASON **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: SUNSHINE CANYON Well ID: PZ-4 Date: 11/25/2023

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:

Protective Outer Casing: Material: FLUSH MOUNT

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: N/A Damaged: _____

Condition of Lock: Good: N/A Damaged: _____

Condition of Weepholes: Good: N/A Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment 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: _____ FIELD TECH III 11/25/2023

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	S022.1227
Well I.D.:	DW-5	**Sampling Date:**	1-25-23
Collected By:	CV	**Purge start Time:**	~~0945~~ 1001
Casing Diameter (inches):	4	**Purge Stop time:**	1031
Starting Water Level:	13.61	**Sampling (Well Recovery) Time:**	A: 1036 B: 1041
Total Depth (feet):	100.45	**Ending Water Level (feet):**	18.77
Water column (feet):	86.84	**Total Purged (gallons):**	3 1/4
Screen Length (feet):	-	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 W6GP8GRS		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1010	1	15.90	7.49	0.000	272	8.63	20.44	-15
1014	1 1/2	16.55	7.50	0.001	270	8.07	20.46	-85
1017	1 3/4	16.93	7.47	0.001	270	7.66	20.49	-130
1019	2	17.15	7.41	0.001	277	7.30	20.53	-131
1021	2 1/4	17.65	7.38	0.001	278	7.10	20.52	-133
1024	2 1/2	18.04	7.32	0.002	277	6.81	20.54	-133
1027	2 3/4	18.37	7.30	0.0001	277	6.30	20.57	-135
1029	3	18.64	7.27	0.001	277	6.25	20.60	-137
1031	3 1/4	18.77	7.25	0.002	276	6.15	20.63	-138

Purge Sampling Rates: 65 PSI Refill 30 Dis 18

Well condition: ok, Heavy Traffic next to well "Dirthaulers" and Trash Trucks, Pump House next to well Running!

Additional Info/Comments: mostly clear, windy, cool, water very Yellowish/Brown water has effervescence "Bubbles"

Name: Christian Valenzuela **Signature:** Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: BGV-5 Date: 1-25-23

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 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: _____

Measurment 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 Vallance~~ Field Tech 1-25-23

Signed Title Date

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon **PROJECT NAME / NUMBER** 5022.1227

Instrument Make/Model # Y-52 Wagners						
Date/Time 1-25-23 0952	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	3.62	4.29	9.0	1200		
Calibration	4.00	4.49	0.0	12.03		
Calibration Successful? (Y/N)	Yes				enter YES or NO	
Satifies Protocol?	Yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	CH				Signature or initials	
Physical Condition of Unit	Ok					

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon PROJECT NAME / NUMBER 5022.1227

Instrument Make/Model #	HORIBA U-52 (OLLCYV006)					
Date/Time 1/25/2023 0935	pH	Electrical Conductivity (µMhos/cm) (4.49 mg/Kg)	Turbidity (NTU) (0)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	3.88	4.35	0.0	10.30		
Calibration	3.99	4.49	0.0	10.20		
Calibration Successful? (Y/N)	Y				enter YES or NO	
Satifies Protocol?	Y				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	NR				Signature or initials	
Physical Condition of Unit		Good				

Chain of Custody Record

390438

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ss: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: KYLE WELCHANS	Site Contact: PAUL KOSTER	Date: 1/25/2023	COC No:
ny Name: GEO-LOGIC ASSOCIATES	Tel/Email: (858) 451-1136	Lab Contact: ROSSINA	Carrier:	1 of 1 COCs
s: 11415 W. BERNARDO CT SUITE 200	Analysis Turnaround Time			Sampler:
ate/Zip: SAN DIEGO CA 92127	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(858) 451-1136	TAT if different from Below _____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Name: REPUBLIC SERVICES - SUNSHINE.	☐ 1 week			
UNSHINE CANYON	☐ 2 days			Job / SDG No.:
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	EPA 8260B-Tetrahydrofuran	T-Butanol and Toluene	EPA 8260B-Tetrahydrofuran	and T-Butanol	EPA 8260B - T-Butanol	EPA 6010B - Total Potassium	EPA 8270 1,4 Dioxane	EPA 8260B - Toluene	Sample Specific Notes:
MW-1-A	1/25/23	1135	G	GW	3					X	X					
MW-1-B		1140			3					X	X					
MW-13R-A		1258			3							X				
MW-13R-B		1302			3							X				
PZ-2-A		1038			1								X			
PZ-2-B		1043			1								X			
PZ-4-A		1203			1									X		
PZ-4-B		1208			1									X		
DW-5-A		1036			3										X	
DW-5-B		1041			3										X	
FIELD BLANK		—		LAB H_2O	2			X	X							LAB Did not provide enough vials for preserved Field Blanks
TRIP BLANK		—		LAB H_2O	4			X	X							

vation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

le Hazard Identification:
y samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the ents Section if the lab is to dispose of the sample.

on-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

l Instructions/QC Requirements & Comments:

tody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
ished by:	Company: GLA	Date/Time: 1-25-23/1449	Received by:	Company: EC	Date/Time: 1/25/23 14:49
ished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
ished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

1.6/1.5 SC12

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Welchans
Geo-Logic Associates
11415 West Bernardo Court
Suite 200
San Diego, California 92127

Generated 1/31/2023 8:21:23 AM

JOB DESCRIPTION

Republic Sunshine Canyon

JOB NUMBER

570-125380-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

my EOL

Eurofins Calscience

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

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1/31/2023 8:21:23 AM

Authorized for release by
Rossina Tomova, Project Manager I
Rossina.Tomova@et.eurofinsus.com
(657)210-6367

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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Job ID: 570-125380-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-125380-1

Comments
No additional comments.

Receipt
The samples were received on 1/25/2023 2:49 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.5º C.

GC/MS VOA
Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-298816. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: MW-1-A — Lab Sample ID: 570-125380-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrahydrofuran	1.8	J	2.0	1.3	ug/L	1		8260B	Total/NA

Client Sample ID: MW-1-B — Lab Sample ID: 570-125380-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrahydrofuran	1.7	J	2.0	1.3	ug/L	1		8260B	Total/NA

Client Sample ID: MW-13R-A — Lab Sample ID: 570-125380-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
t-Butanol	7.4		5.0	3.1	ug/L	1		8260B	Total/NA

Client Sample ID: MW-13R-B — Lab Sample ID: 570-125380-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
t-Butanol	7.4		5.0	3.1	ug/L	1		8260B	Total/NA

Client Sample ID: PZ-2-A — Lab Sample ID: 570-125380-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	3.1		2.0	0.58	mg/L	1		6010B	Total Recoverable

Client Sample ID: PZ-2-B — Lab Sample ID: 570-125380-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	3.0		2.0	0.58	mg/L	1		6010B	Total Recoverable

Client Sample ID: PZ-4-A — Lab Sample ID: 570-125380-7

No Detections.

Client Sample ID: PZ-4-B — Lab Sample ID: 570-125380-8

No Detections.

Client Sample ID: DW-5-A — Lab Sample ID: 570-125380-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.46	J	0.50	0.14	ug/L	1		8260B	Total/NA

Client Sample ID: DW-5-B — Lab Sample ID: 570-125380-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.45	J	0.50	0.14	ug/L	1		8260B	Total/NA

Client Sample ID: FIELD BLANK — Lab Sample ID: 570-125380-11

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 570-125380-12

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1-A

Date Collected: 01/25/23 11:35
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	ND		5.0	3.1	ug/L			01/26/23 19:26	1
Tetrahydrofuran	**1.8**	**J**	2.0	1.3	ug/L			01/26/23 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 132*		*01/26/23 19:26*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 120*		*01/26/23 19:26*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*01/26/23 19:26*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/26/23 19:26*	*1*

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: MW-1-B

Date Collected: 01/25/23 11:40
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	ND		5.0	3.1	ug/L			01/26/23 19:51	1
Tetrahydrofuran	**1.7**	**J**	2.0	1.3	ug/L			01/26/23 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 132*		*01/26/23 19:51*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 120*		*01/26/23 19:51*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/26/23 19:51*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/26/23 19:51*	*1*

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: MW-13R-A

Date Collected: 01/25/23 12:58
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	7.4		5.0	3.1	ug/L			01/26/23 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 132*		*01/26/23 21:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 120*		*01/26/23 21:05*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/26/23 21:05*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/26/23 21:05*	*1*

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: MW-13R-B

Date Collected: 01/25/23 13:02
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	7.4		5.0	3.1	ug/L			01/26/23 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 132*		*01/26/23 21:30*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 120*		*01/26/23 21:30*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*01/26/23 21:30*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/26/23 21:30*	*1*

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: PZ-2-A

Date Collected: 01/25/23 10:38
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-5

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	3.1		2.0	0.58	mg/L		01/27/23 08:44	01/27/23 19:24	1

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: PZ-2-B

Date Collected: 01/25/23 10:43
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-6

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	3.0		2.0	0.58	mg/L		01/27/23 08:44	01/27/23 19:22	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: PZ-4-A

Date Collected: 01/25/23 12:03
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-7

Matrix: Water

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		01/27/23 17:51	01/28/23 00:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*64*		*21 - 120*	*01/27/23 17:51*	*01/28/23 00:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*98*		*58 - 135*	*01/27/23 17:51*	*01/28/23 00:54*	*1*

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: PZ-4-B
Date Collected: 01/25/23 12:08
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-8
Matrix: Water

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		01/27/23 17:51	01/28/23 01:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*59*		*21 - 120*	*01/27/23 17:51*	*01/28/23 01:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*99*		*58 - 135*	*01/27/23 17:51*	*01/28/23 01:08*	*1*

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: DW-5-A

Date Collected: 01/25/23 10:36
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-9

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.46	J	0.50	0.14	ug/L			01/26/23 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 132*		*01/26/23 20:15*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 120*		*01/26/23 20:15*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*01/26/23 20:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*01/26/23 20:15*	*1*

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: DW-5-B
Date Collected: 01/25/23 10:41
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-10
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.45	J	0.50	0.14	ug/L			01/26/23 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*		*01/26/23 20:40*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 120*		*01/26/23 20:40*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*01/26/23 20:40*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/26/23 20:40*	*1*

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: FIELD BLANK
Date Collected: 01/25/23 00:00
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-11
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	ND		5.0	3.1	ug/L			01/26/23 15:43	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			01/26/23 15:43	1
Toluene	ND		0.50	0.14	ug/L			01/26/23 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*		*01/26/23 15:43*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*		*01/26/23 15:43*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*01/26/23 15:43*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*01/26/23 15:43*	*1*

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: TRIP BLANK
Date Collected: 01/25/23 00:00
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-12
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	ND		5.0	3.1	ug/L			01/26/23 15:18	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			01/26/23 15:18	1
Toluene	ND		0.50	0.14	ug/L			01/26/23 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 132*		*01/26/23 15:18*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 120*		*01/26/23 15:18*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*01/26/23 15:18*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*01/26/23 15:18*	*1*

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-132)	(76-120)	(80-120)	(80-120)
570-125380-1	MW-1-A	106	98	101	100
570-125380-2	MW-1-B	108	95	103	100
570-125380-3	MW-13R-A	102	102	103	100
570-125380-4	MW-13R-B	97	102	100	100
570-125380-9	DW-5-A	106	104	102	101
570-125380-10	DW-5-B	103	102	101	100
570-125380-11	FIELD BLANK	103	96	99	101
570-125380-12	TRIP BLANK	102	94	101	101
LCS 570-298816/4	Lab Control Sample	98	101	101	100
LCSD 570-298816/5	Lab Control Sample Dup	100	99	102	100
MB 570-298816/7	Method Blank	100	96	101	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		NBZ
Lab Sample ID	Client Sample ID	(58-135)
570-125380-7	PZ-4-A	98
570-125380-8	PZ-4-B	99
570-125500-J-2-B MS	Matrix Spike	98
570-125500-J-2-C MSD	Matrix Spike Duplicate	98
LCS 570-299284/2-A	Lab Control Sample	107
LCSD 570-299284/3-A	Lab Control Sample Dup	101
MB 570-299284/1-A	Method Blank	101

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

Isotope Dilution Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE
Lab Sample ID	Client Sample ID	(21-120)
570-125380-7	PZ-4-A	64
570-125380-8	PZ-4-B	59
570-125500-J-2-B MS	Matrix Spike	62
570-125500-J-2-C MSD	Matrix Spike Duplicate	65
LCS 570-299284/2-A	Lab Control Sample	57
LCSD 570-299284/3-A	Lab Control Sample Dup	61
MB 570-299284/1-A	Method Blank	70

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-298816/7
Matrix: Water
Analysis Batch: 298816

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	ND		5.0	3.1	ug/L			01/26/23 12:40	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			01/26/23 12:40	1
Toluene	ND		0.50	0.14	ug/L			01/26/23 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 132*		*01/26/23 12:40*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*		*01/26/23 12:40*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*01/26/23 12:40*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*01/26/23 12:40*	*1*

Lab Sample ID: LCS 570-298816/4
Matrix: Water
Analysis Batch: 298816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
t-Butanol			100	86.7		ug/L		87	68 - 133		
Tetrahydrofuran			20.0	16.8		ug/L		84	32 - 152		
Toluene			10.0	8.38		ug/L		84	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 132*
4-Bromofluorobenzene (Surr)	*101*		*76 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 570-298816/5
Matrix: Water
Analysis Batch: 298816

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
t-Butanol			100	89.3		ug/L		89	68 - 133	3	21
Tetrahydrofuran			20.0	17.0		ug/L		85	32 - 152	1	30
Toluene			10.0	8.73		ug/L		87	80 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 132*
4-Bromofluorobenzene (Surr)	*99*		*76 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-299284/1-A
Matrix: Water
Analysis Batch: 299230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 299284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		01/27/23 17:51	01/28/23 00:09	1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	70		21 - 120	01/27/23 17:51	01/28/23 00:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	101		58 - 135	01/27/23 17:51	01/28/23 00:09	1

Lab Sample ID: LCS 570-299284/2-A
Matrix: Water
Analysis Batch: 299230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 299284

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			20.0	19.0		ug/L		95	63 - 144		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8	57		21 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	107		58 - 135

Lab Sample ID: LCSD 570-299284/3-A
Matrix: Water
Analysis Batch: 299230

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 299284

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			20.0	17.9		ug/L		89	63 - 144	6	20

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	61		21 - 120

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	101		58 - 135

Lab Sample ID: 570-125500-J-2-B MS
Matrix: Water
Analysis Batch: 299309

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 299284

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	ND		20.0	17.3		ug/L		86	48 - 164		

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
1,4-Dioxane-d8	62		21 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	98		58 - 135

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 570-125500-J-2-C MSD
Matrix: Water
Analysis Batch: 299309

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 299284

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	ND		20.0	17.8		ug/L		89	48 - 164	3	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*65*		*21 - 120*

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*98*		*58 - 135*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-299065/1-A
Matrix: Water
Analysis Batch: 299625

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 299065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		2.0	0.58	mg/L		01/27/23 08:44	01/27/23 18:19	1

Lab Sample ID: LCS 570-299065/2-A
Matrix: Water
Analysis Batch: 299625

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 299065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	5.00	4.89		mg/L		98	80 - 120

Lab Sample ID: LCSD 570-299065/3-A
Matrix: Water
Analysis Batch: 299625

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 299065

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	5.00	4.88		mg/L		98	80 - 120	0	20

Lab Sample ID: 570-125343-M-3-B MS
Matrix: Water
Analysis Batch: 299625

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 299065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	3.6		5.00	8.24		mg/L		92	83 - 131

Lab Sample ID: 570-125343-M-3-C MSD
Matrix: Water
Analysis Batch: 299625

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 299065

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	3.6		5.00	8.32		mg/L		94	83 - 131	1	7

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

GC/MS VOA

Analysis Batch: 298816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-125380-1	MW-1-A	Total/NA	Water	8260B	
570-125380-2	MW-1-B	Total/NA	Water	8260B	
570-125380-3	MW-13R-A	Total/NA	Water	8260B	
570-125380-4	MW-13R-B	Total/NA	Water	8260B	
570-125380-9	DW-5-A	Total/NA	Water	8260B	
570-125380-10	DW-5-B	Total/NA	Water	8260B	
570-125380-11	FIELD BLANK	Total/NA	Water	8260B	
570-125380-12	TRIP BLANK	Total/NA	Water	8260B	
MB 570-298816/7	Method Blank	Total/NA	Water	8260B	
LCS 570-298816/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-298816/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Analysis Batch: 299230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-125380-7	PZ-4-A	Total/NA	Water	8270C SIM ID	299284
570-125380-8	PZ-4-B	Total/NA	Water	8270C SIM ID	299284
MB 570-299284/1-A	Method Blank	Total/NA	Water	8270C SIM ID	299284
LCS 570-299284/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	299284
LCSD 570-299284/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	299284

Prep Batch: 299284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-125380-7	PZ-4-A	Total/NA	Water	3510C	
570-125380-8	PZ-4-B	Total/NA	Water	3510C	
MB 570-299284/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-299284/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-299284/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
570-125500-J-2-B MS	Matrix Spike	Total/NA	Water	3510C	
570-125500-J-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 299309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-125500-J-2-B MS	Matrix Spike	Total/NA	Water	8270C SIM ID	299284
570-125500-J-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270C SIM ID	299284

Metals

Prep Batch: 299065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-125380-5	PZ-2-A	Total Recoverable	Water	3005A	
570-125380-6	PZ-2-B	Total Recoverable	Water	3005A	
MB 570-299065/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 570-299065/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 570-299065/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
570-125343-M-3-B MS	Matrix Spike	Total Recoverable	Water	3005A	
570-125343-M-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 299625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-125380-5	PZ-2-A	Total Recoverable	Water	6010B	299065

Metals (Continued)

Analysis Batch: 299625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-125380-6	PZ-2-B	Total Recoverable	Water	6010B	299065
MB 570-299065/1-A	Method Blank	Total Recoverable	Water	6010B	299065
LCS 570-299065/2-A	Lab Control Sample	Total Recoverable	Water	6010B	299065
LCSD 570-299065/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	299065
570-125343-M-3-B MS	Matrix Spike	Total Recoverable	Water	6010B	299065
570-125343-M-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	299065

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: MW-1-A
Date Collected: 01/25/23 11:35
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	298816	01/26/23 19:26	OH1	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: MW-1-B
Date Collected: 01/25/23 11:40
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	298816	01/26/23 19:51	OH1	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: MW-13R-A
Date Collected: 01/25/23 12:58
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	298816	01/26/23 21:05	OH1	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: MW-13R-B
Date Collected: 01/25/23 13:02
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	298816	01/26/23 21:30	OH1	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: PZ-2-A
Date Collected: 01/25/23 10:38
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	299065	01/27/23 08:44	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			299625	01/27/23 19:24	P1R	EET CAL 4
	Instrument ID: ICP11									

Client Sample ID: PZ-2-B
Date Collected: 01/25/23 10:43
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	299065	01/27/23 08:44	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			299625	01/27/23 19:22	P1R	EET CAL 4
	Instrument ID: ICP11									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Client Sample ID: PZ-4-A
Date Collected: 01/25/23 12:03
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			100 mL	10 mL	299284	01/27/23 17:51	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	299230	01/28/23 00:54	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									

Client Sample ID: PZ-4-B
Date Collected: 01/25/23 12:08
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			100 mL	10 mL	299284	01/27/23 17:51	UFLE	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	299230	01/28/23 01:08	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									

Client Sample ID: DW-5-A
Date Collected: 01/25/23 10:36
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	298816	01/26/23 20:15	OH1	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: DW-5-B
Date Collected: 01/25/23 10:41
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	298816	01/26/23 20:40	OH1	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: FIELD BLANK
Date Collected: 01/25/23 00:00
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	298816	01/26/23 15:43	OH1	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: TRIP BLANK
Date Collected: 01/25/23 00:00
Date Received: 01/25/23 14:49

Lab Sample ID: 570-125380-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	298816	01/26/23 15:18	OH1	EET CAL 4
	Instrument ID: GCMSUU									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geo-Logic Associates
Job ID: 570-125380-1
Project/Site: Republic Sunshine Canyon

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	Los Angeles County Sanitation Districts	10109	07-31-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-23
Nevada	State	CA00111	08-01-23
Oregon	NELAP	4175	02-02-23
USDA	US Federal Programs	P330-22-00059	05-24-23
Washington	State	C916-18	10-11-23

Method Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-125380-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-125380-1	MW-1-A	Water	01/25/23 11:35	01/25/23 14:49
570-125380-2	MW-1-B	Water	01/25/23 11:40	01/25/23 14:49
570-125380-3	MW-13R-A	Water	01/25/23 12:58	01/25/23 14:49
570-125380-4	MW-13R-B	Water	01/25/23 13:02	01/25/23 14:49
570-125380-5	PZ-2-A	Water	01/25/23 10:38	01/25/23 14:49
570-125380-6	PZ-2-B	Water	01/25/23 10:43	01/25/23 14:49
570-125380-7	PZ-4-A	Water	01/25/23 12:03	01/25/23 14:49
570-125380-8	PZ-4-B	Water	01/25/23 12:08	01/25/23 14:49
570-125380-9	DW-5-A	Water	01/25/23 10:36	01/25/23 14:49
570-125380-10	DW-5-B	Water	01/25/23 10:41	01/25/23 14:49
570-125380-11	FIELD BLANK	Water	01/25/23 00:00	01/25/23 14:49
570-125380-12	TRIP BLANK	Water	01/25/23 00:00	01/25/23 14:49

Chain of Custody Record

390438

eurofins | Environment Testing TestAmerica

125380

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: KYLE WELCHANS	Site Contact: PAUL KOSTER	Date: 1/25/2023	COC No
Company Name: GEO-LOGIC ASSOCIATES	Tel/Email: (858) 451-1136	Lab Contact: RUSSINA	Carrier:	1 of 1 COCs
Address 11415 W. BERNARDO CT SUITE 200	Analysis Turnaround Time			Sampler
City/State/Zip SAN DIEGO CA 92127	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone (858) 451-1136	TAT if different from Below _____			Walk-in Client:
Fax	☐ 2 weeks			Lab Sampling
Project Name REPUBLIC SERVICES - SUNSHINE	☐ 1 week			
Site SUNSHINE CANYON	☐ 2 days			Job / SDG No
PO #	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	EPA 8260B Tetrahydrofuran	T-Butanol and Toluene	EPA 8260B Tetrahydrofuran and T-Butanol	EPA 8260B - T-Butanol	EPA 6010B - Total Potassium	EPA 8270 1,4 Dioxane	EPA 8260B - Toluene	Sample Specific Notes
1	MW-1-A	1/25/23	1135	G	GW	3					X	X				
2	MW-1-B		1140			3					X	X				
3	MW-13R-A		1258			3						X				
4	MW-13R-B		1302			3						X				
5	PZ-2-A		1038			1							X			
6	PZ-2-B		1043			1							X			
7	PZ-4-A		1203			1								X		
8	PZ-4-B		1208			1								X		
9	DW-5-A		1036			3									X	
10	DW-5-B		1041		↓	3									X	
11	FIELD BLANK		—		LAB H2O	2			X	X						LAB did not provide enough vials for preserved Field Blanks
12	TRIP BLANK	↓	—	↓	LAB H2O	4			X	X						

570-125380 Chain of Custody

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

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____	Therm ID No _____

Relinquished by	Company GLA	Date/Time 1-25-23/1449	Received by	Company EC	Date/Time 1/25/23 14 49
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

16/15 Sc12

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1/31/2023

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 570-125380-1

Login Number: 125380
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Geo-Logic ASSOCIATES

GROUNDWATER MONITORING PROGRAM
WATER LEVEL SURVEY RECORD SHEET

SITE NAME: Sunshine Cyn. L/F
DATE: 03-20-23
PROJECT NUMBER 5022.1532
WATER LEVEL MAKE/MODEL: Heron, Solinst
FIELD PERSONNEL: BS, CV, NR

WELL ID	CONSTRUCTION TOTAL DEPTH (TD)	ACTUAL TOTAL DEPTH (TD)	DEPTH TO WATER (DTW)	COMMENTS
CM-9R3			5.67	Hiked to well/Buried
CM-10R			43.51	
CM-11R			5.58	Hiked to well CV/NR
MW-1			12.97	Flooded & Hiked to well
MW-5			11.45	
MW-6			14.77	Hiked to well
MW-13R			13.82	
MW-14			12.15	Hiked to well
DW-2			14.47	Hiked to well
DW-3			158.39	
PZ-2			119.93	Hiked to well
PZ-4			109.72	
DW-5			12.96	
CM-5R			227.59	Hiked to well
PZ-1			94.78	
PZ-3			224.88	Hiked to well

REMARKS:

SIGNATURE: [signature]

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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Client Information

Client Contact: Kyle Welchons / Paul Koster
Company: GLA / Republic Services
Address: 11445 W. Bernardo Ct.
City: San Diego
State, Zip: CA 92127
Phone: 858-451-1136 / 818-362-2258
Email:
Project Name: Republic Services Due
Site: Sunshine Can. Landfill

Sampler: BS, CV, NR
Phone: 858-451-1136
Lab PM: Rossina Tamayo
E-Mail:
Carrier Tracking No(s):
COC No:
Page: 1 of 1
Job #: 3022.1832
Due Date Requested:
TAT Requested (days):
PO #:
WO #:
Project #:
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 8260B - VOCs	EPA 8270 - 1,4-Dioxane	EPA 310.1 Alkalinity	EPA 350.2 - Ammonia as N	EPA 410.4 - COD	EPA 300.0 - Chloride	EPA 160.B Hardness	EPA 160.1 - TDS	EPA 415.1 - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:														
MW-1	3-21-23	1203	G	GW			X	X	X	X	X	X	X	X	X		
MW-5		1024					X	X	X	X	X	X	X	X	X		
MW-13R		0841					X	X	X	X	X	X	X	X	X		
DW-2		1131					X	X	X	X	X	X	X	X	X		
DW-3		0905					X	X	X	X	X	X	X	X	X		
DW-5		1114					X	X	X	X	X	X	X	X	X		
PZ-4		0902		GW			X	X	X	X	X	X	X	X	X		
Field Blank		—		Lab Water			X										
Trip Blank	3-21-23	—		"			X										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Special Instructions/QC Requirements:

Empty Kit Relinquished by:
Date:
Time:
Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	3/21/23 1355	GLA	[signature]	3/21/23 1355	EC
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins | Calscience

Client Information

Client Contact: Kyle Welborn / Paul Kester	Sampler: BS, NR, CV	Lab PM: Rossiter, Tamara	Carrier Tracking No(s): eurofins	COC No:
Company: GLA / Republic Services	Phone: 858-451-1136	E-Mail:		Page: 1 of 1
Address: 11445 W. Bernardo Ct.	Due Date Requested:			Job #: 5022.1832
City: San Diego, ~~CA~~	TAT Requested (days):			
State, Zip: CA, 92127	PO #:			
Phone: 858-451-1136 / 818-362-2258	WO #:			
Email:	Project #:			
Project Name: Sunshine Can. Landfill	SSOW#:			
Site:				

Analysis Requested (BS)

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 8260B - VOCs	EPA 8270 - 1,4-Dioxane	Sulfate, Chloride, Fluoride, Nitrate, Nitrite, Phosphorus, Ortho-Phosphate (300.0)	Ammonia as N (350.1)	COD (410.4)	TDS (160.1)	TOC (415.1)	Total Number of containers	Special Instructions/Note:
			Preservation Code:												
CM-9R3	3/20/23	1145	G	GW			X	X	X	X	X	X	X	13	
CM-10R							X	X	X	X	X	X		13	
CM-11R							X	X	X	X	X	X		13	
MW-6							X	X	X	X	X	X		13	
MW-14							X	X	X	X	X	X		13	
PZ-2							X	X	X	X	X	X		13	
Duplicate		—		GW			X	X	X	X	X	X		13	
LY-7		0911		WW			X	X	X	X	X	X		13	
Combined Subdrains		1150		WW			X	X	X	X	X	X		13	
Field Blank		—		Lab Water			X							1	
Trip Blank	3/20/23	—		"			X							1	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3/20/23 1618	Company GLA	Received by:	Date/Time: 3/20/23 1618	Company EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CANYON	**Project No.:**	SJ22.1032
Well I.D.:	CM-9R3	**Sampling Date:**	03/20/2023
Collected By:	NR	**Purge start Time:**	1113
Casing Diameter (inches):	4	**Purge Stop time:**	1135
Starting Water Level:	5.67	**Sampling (Well Recovery) Time:**	1145
Total Depth (feet):	33.15	**Ending Water Level (feet):**	6.18
Water column (feet):	27.48	**Total Purged (gallons):**	2 3/4
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52/DLLGV006		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1117	1/2	6.14	6.41	4.12	188	0.00	16.53	134
1121	1	6.23	6.43	3.83	86.2	0.00	16.50	106
1125	1 1/2	6.18	6.20	3.19	63.7	0.00	16.24	110
1129	2	6.18	6.06	2.98	47.7	0.00	16.09	119
1131	2 1/4	6.18	6.00	2.93	42.2	0.00	16.02	123
1133	2 1/2	6.18	5.99	2.92	42.1	0.00	16.00	124
1135	2 3/4	6.18	5.99	2.92	42.4	0.00	15.98	125

Purge Sampling Rates: PSI 25 Refill (30) DISCHARGE (4) (11)

WATER HAS SLIGHT ODOR AND ORANGE COLOR

Well condition: FAIR - MUD UP TO TOP OF MONUMENT, Required carrying SAMPLING EQUIPMENT AND BOTTLES TO WELL TO COLLECT SAMPLE

Additional Info/Comments: CLOUDY, Mild temp

Name: NICHOLAS REASON **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: SUNSHINE CANYON Well ID: CM-9R3 Date: 03/20/2023

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: Required CARRying Sampling equipment to well. Mudflow from recent rains have debris around well. Water ponded / flowing next to well.

Concrete Pad:

Integrity: Good: _____ Inadequate: ✓

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

Remarks: CONCRETE PAD IS 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: _____

Measurment 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: _____ FIELD TECH 03/20/2023

Signed Title Date

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CANYON	**Project No.:**	5022.1032
Well I.D.:	CM-10R	**Sampling Date:**	03/20/2023
Collected By:	NR	**Purge start Time:**	1254
Casing Diameter (inches):	4	**Purge Stop time:**	1314
Starting Water Level:	43.51	**Sampling (Well Recovery) Time:**	1324
Total Depth (feet):	110.90	**Ending Water Level (feet):**	43.87
Water column (feet):	67.39	**Total Purged (gallons):**	2 1/2
Screen Length (feet):	—	**Duplicate Sample:**	(YES) NO
Sample Method:	(Micro Purge) Low Flow	★DUPLICATE COLLECTED HERE★	
Horiba Model S/N:	U-52/DLLCYV06		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1304	1	43.78	7.00	2.91	0.3	0.00	21.94	-10
1307	1 1/2	43.80	7.01	2.90	0.0	0.00	21.92	-16
1310	2	43.83	7.03	2.90	0.0	0.00	21.95	-22
1312	2 1/4	43.86	7.03	2.90	0.0	0.00	21.98	-25
1314	2 1/2	43.87	7.03	2.90	0.0	0.00	21.97	-26

Purge Sampling Rates: 50 PSI REFILL (40) DISCHARGE (10)

Well condition: OK - STANDING WATER INSIDE MONUMENT TO THE TOP OF PVC CASING.

Additional Info/Comments: Cloudy, mild temp

Name: Nicholas Reason **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: CM-10R Date: 03/20/2023

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:

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: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: BLADDER

Condition: Good: ✓ Damaged: _____ Missing: _____

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

Remarks:

Field Certification: _____ Field Tech 03/20/2023

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1032
Well I.D.:	CM-11R	**Sampling Date:**	3/20/2023
Collected By:	NR, CV	**Purge start Time:**	1421
Casing Diameter (inches):	4	**Purge Stop time:**	1458
Starting Water Level:	5.58	**Sampling (Well Recovery) Time:**	1508
Total Depth (feet):	30.70	**Ending Water Level (feet):**	5.61
Water column (feet):		**Total Purged (gallons):**	2 1/4
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 / OLLQVB06		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1432	1/2	5.62	6.54	3.81	0.0	0.00	16.32	67
1438	1	5.61	6.34	3.69	0.0	0.00	16.29	80
1442	1 1/4	5.61	6.28	3.65	0.0	0.00	16.22	87
1446	1 1/2	5.61	6.18	3.55	0.0	0.00	16.14	95
1450	1 3/4	5.61	6.06	3.47	0.0	0.00	16.13	108
1454	2	5.61	6.04	3.47	0.0	0.00	16.13	110
1458	2 1/4	5.61	6.04	3.46	0.0	0.00	16.13	110

Purge Sampling Rates: 30 PSI Refill (25) Discharge (5)

Required carrying equipment up concrete channel to access well

Well condition: OK - Running water next to well. Water clear with no odor

Additional Info/Comments: Cloudy, Mild temp

Name: Nicholas Reason **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: ~~CAA-IIR~~ Sunshine Cyn Well ID: CM-11R Date: 3/20/23

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 equipment up channel to well. mud flow and water flowing next to well

Concrete Pad:

Integrity: Good: _____ Inadequate: _____

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

Remarks: Half of concrete pad is 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: _____

Measurment 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 3/20/23

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine canyon	**Project No.:**	5022.102
Well I.D.:	MW-1	**Sampling Date:**	3-21-23
Collected By:	CV	**Purge start Time:**	1126
Casing Diameter (inches):	4	**Purge Stop time:**	1148
Starting Water Level:	12.97	**Sampling (Well Recovery) Time:**	1203
Total Depth (feet):	28.85	**Ending Water Level (feet):**	13.05
Water column (feet):		**Total Purged (gallons):**	2 3/4
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	4-524466868RS	Blanks Taken Here	

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1134	1	13.05	6.84	7.13	99.1	2.45	20.57	30
1138	1 1/2	1305	6.83	7.10	88.7	2.36	20.59	34
1140	1 3/4	13.05	6.82	7.12	68.9	2.28	20.62	36
1142	2	11	6.82	7.11	55.8	2.25	20.60	38
1144	2 1/4	11	6.82	7.11	45.5	2.22	20.58	39
1146	2 1/2	11	6.82	7.11	45.4	2.17	20.62	39
1148	2 3/4	11	6.81	7.11	45.1	2.15	20.58	41

Purge Sampling Rates: 20 PSi Refill 30 dis 9

Well condition: OK

Additional Info/Comments: Overcast, Raining

Name: Christian Valenzuela **Signature:** [signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-1 Date: 3-21-23

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: Pipes and weeds around well

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: _____

Measurment 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] Signed Field Tech Title 3-21-23 Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1032
Well I.D.:	MW-5	**Sampling Date:**	3-21-23
Collected By:	CV	**Purge start Time:**	0953
Casing Diameter (inches):	2	**Purge Stop time:**	1009
Starting Water Level:	11.45	**Sampling (Well Recovery) Time:**	1024
Total Depth (feet):	25.65	**Ending Water Level (feet):**	11.95
Water column (feet):		**Total Purged (gallons):**	2 3/4
Screen Length (feet):	←	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	4-52 [illegible]		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0958	3/4	11.95	7.18	2.63	18.3	2.72	18.84	-157
1002	1 1/2	11.95	7.04	2.79	2.6	2.17	18.58	-149
1004	1 3/4	11.95	7.00	2.89	1.0	2.03	18.65	-148
1005	2	11	6.98	2.92	0.9	1.96	18.68	-148
1007	2 1/4	11	6.97	2.93	0.0	1.91	18.67	-147
1008	2 1/2	11	6.97	2.93	0.3	1.87	18.70	-147
1009	2 3/4	11	6.94	2.94	0.0	1.80	18.72	-146

Purge Sampling Rates: 25 Psi Refill 30 Dis 9

Well condition: OK, Had to carry sampling Equipment, Area Flooded. standing in Roughly 1 Foot of water, water has yellow tint

Additional Info/Comments: Raining, windy

Name: Christian Valenzuela **Signature:** [signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-5 Date: 3-21-23

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: Road to well flooded. Standing water around well

Concrete Pad:

Integrity: Good: _____ Inadequate: _____

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

Remarks: Pad is Buried / under water

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: _____

Measurment 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 3-21-23

Signed Title Date

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine canyon	**Project No.:**	5022.1632
Well I.D.:	MW-6	**Sampling Date:**	3-20-23
Collected By:	CV	**Purge start Time:**	1202
Casing Diameter (inches):	2	**Purge Stop time:**	1254
Starting Water Level:	14.77	**Sampling (Well Recovery) Time:**	1314
Total Depth (feet):	20.52	**Ending Water Level (feet):**	15.58
Water column (feet):		**Total Purged (gallons):**	2 1/2
Screen Length (feet):	-	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 WG[illegible]	BLANKS TAKEN HERE	

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1215	1/2	15.32	7.16	3.52	11.8	10.09	20.34	-315
1225	1	15.52	7.09	2.61	3.0	7.94	20.02	-279
1230	1 1/4	15.58	7.08	1.82	0.0	5.64	19.75	-245
1235	1 1/2	15.54	7.08	1.71	0.0	4.62	19.66	-232
1240	1 3/4	15.60	7.07	1.73	0.0	4.23	19.69	-230
1245	2	15.60	7.04	1.76	0.0	3.75	19.68	-233
1250	2 1/4	15.58	7.02	1.77	0.0	3.63	19.69	-233
1254	2 1/2	15.58	7.02	1.78	0.0	3.61	19.68	-234

Purge Sampling Rates: 25 PSI Ref: 1130 DS 6

Well condition: OK, required carrying equipment through thick vegetation

Additional Info/Comments: Heavy odor/strong odor, purge water had dark/black tint. Overcast, cool. Heavy traffic East of well

Name: Christian Valenzuela Signature: Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-6 Date: 3-20-23

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 Equipment to well through Heavy Vegetation

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: _____

Measurment 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 3-20-23

Signed Title Date

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1032
Well I.D.:	MW-13R	**Sampling Date:**	3-21-23
Collected By:	CV	**Purge start Time:**	0737
Casing Diameter (inches):	4	**Purge Stop time:**	0821
Starting Water Level:	13.90	**Sampling (Well Recovery) Time:**	0841
Total Depth (feet):	28.47	**Ending Water Level (feet):**	14.34
Water column (feet):		**Total Purged (gallons):**	2
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 WG48685		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0749	1/2	14.15	7.28	2.77	457	13.18	20.10	-386
0755	3/4	14.20	7.28	2.77	408	12.82	20.40	-391
0801	1	14.24	7.28	2.77	408	11.50	20.40	-392
0806	1 1/4	14.28	7.27	2.77	407	9.38	20.41	-393
0811	1 1/2	14.31	7.27	2.77	406	8.40	20.42	-393
0816	1 3/4	14.34	7.26	2.77	405	8.32	20.42	-393
0821	2	14.34	7.26	2.77	405	8.28	20.45	-393

Purge Sampling Rates: 30 PSI Refill 30 DIS(6)

Well condition: ok, Required carrying Equipment to well. water has strong odor and blackish tint/yellow

Additional Info/Comments: Over cast, raining.

Name: Christian Valenzuela **Signature:** Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-13R Date: 3-21-23

Access:

Accessibility: Good: _____ Fair: V Poor: _____

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

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

Remarks: Required carrying Equipment to well

Concrete Pad:

Integrity: Good: V Inadequate: _____

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

Remarks:

Protective Outer Casing: Material: Metal

Condition of Protective Casing: Good: V Damaged: _____

Condition of Locking Cap: Good: V Damaged: _____

Condition of Lock: Good: V Damaged: _____

Condition of Weepholes: Good: V Damaged: _____

Remarks: Outer casing corroded on inside

Well Riser: Material: PVC

Condition of Riser: Good: V Damaged: _____

Condition of Riser Cap: Good: V Damaged: _____

Measurment reference point: Yes: V No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: V Damaged: _____ Missing: _____

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

Remarks:

Field Certification: [signature] Field Tech 3-21-23

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1032
Well I.D.:	MW-14	**Sampling Date:**	3-20-23
Collected By:	CV	**Purge start Time:**	1058
Casing Diameter (inches):	4	**Purge Stop time:**	1110
Starting Water Level:	12.15	**Sampling (Well Recovery) Time:**	1125
Total Depth (feet):	27.35	**Ending Water Level (feet):**	12.57
Water column (feet):		**Total Purged (gallons):**	2 3/4
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52W[illegible]		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1102	1	12.27	6.67	5.83	0.0	2.49	20.88	124
1105	1 1/2	12.37	6.62	5.85	0.0	1.85	20.86	123
1107	2	12.47	6.61	5.85	0.0	1.51	20.83	124
1108	2 1/4	12.58	6.66	5.85	0.0	1.35	20.81	124
1109	2 1/2	12.55	6.60	5.85	0.0	1.29	20.81	124
1110	2 3/4	12.57	6.60	5.84	0.0	1.25	20.79	124

Purge Sampling Rates: 25 PSI Refill 25 dis 10

Well condition: OK, Required carrying Equipment Down slope to well

Additional Info/Comments: Over Cast, Cool, Heavy traffic East of well

Name: Christian Valenzuela **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-14 Date: 3-20-23

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: Received carrying sampling Equipment Down slope. Lots of weeds around well

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

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

Remarks: some soil on pad, less than 1 inch 1/4

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: _____

Measurment 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 3-20-23

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1032
Well I.D.:	P2-2	**Sampling Date:**	3-20-23
Collected By:	CV	**Purge start Time:**	0917
Casing Diameter (inches):	2	**Purge Stop time:**	0942
Starting Water Level:	119.93	**Sampling (Well Recovery) Time:**	1002
Total Depth (feet):	157.53	**Ending Water Level (feet):**	125.92
Water column (feet):	37.60	**Total Purged (gallons):**	2
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 W6GP8GRS		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0924	1/2	121.67	8.33	5.69	0.0	1.53	24.09	-148
0930	1	122.97	8.50	5.69	0.0	1.12	24.02	-148
0933	1 1/4	123.99	8.53	5.71	0.0	1.05	24.08	-148
0936	1 1/2	124.55	8.54	5.70	0.0	1.00	24.07	-147
0939	1 3/4	125.35	8.55	5.69	0.0	0.93	24.08	-146
0942	2	125.92	8.55	5.69	0.0	0.91	24.04	-145

Purge Sampling Rates: 80 PSI Refill 30 Dis 20

Well condition: OK

Additional Info/Comments: Overcast cool

Name: Christian Valenzuela **Signature:** [signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: PZ-2 Date: 3-20-23

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: Required Carrying Equipment across channel to well
Standing water around well casing

Concrete Pad:

Integrity: Good: _____ Inadequate: _____

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

Remarks: No Concrete Pad

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: _____

Measurment 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 3-20-23
Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CANYON	**Project No.:**	5022.1032
Well I.D.:	PZ-4	**Sampling Date:**	3/21/2023
Collected By:	NR	**Purge start Time:**	0829
Casing Diameter (inches):	2	**Purge Stop time:**	0852
Starting Water Level:	109.72	**Sampling (Well Recovery) Time:**	0902
Total Depth (feet):		**Ending Water Level (feet):**	113.20
Water column (feet):		**Total Purged (gallons):**	2¼
Screen Length (feet):		**Duplicate Sample:**	YES (NO)
Sample Method:	~~Micro Purge~~ Low Flow		
Horiba Model S/N:	U-52/DLLCYV06		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0834	½	112.16	7.03	2.37	221	0.00	22.01	95
0839	1	112.30	7.15	2.32	41.2	0.00	22.05	-14
0844	1½	112.98	7.15	2.30	17.8	0.00	22.29	-38
0847	1¾	113.11	7.14	2.30	17.4	0.00	22.28	-40
0849	2	113.17	7.16	2.30	17.6	0.00	22.30	-42
0852	2¼	113.20	7.16	2.30	17.5	0.00	22.31	-44

Purge Sampling Rates: 95 PSI REFILL (30) DISCHARGE (19)

Well condition: OK

Additional Info/Comments: CLOUDY, LIGHT RAIN, COOL TEMP

Name: NICHOLAS REASON **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: PZ-4 Date: 3/21/2023

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:

Protective Outer Casing: Material: Flushmount

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: N/A Damaged: _____

Condition of Lock: Good: N/A Damaged: _____

Condition of Weepholes: Good: N/A Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment 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: _____ Field Tech 3/21/23

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CANYON	**Project No.:**	5022.1032
Well I.D.:	DW-2	**Sampling Date:**	3/21/2023
Collected By:	NR	**Purge start Time:**	1102
Casing Diameter (inches):	4	**Purge Stop time:**	1121
Starting Water Level:	14.47	**Sampling (Well Recovery) Time:**	1131
Total Depth (feet):	70.90	**Ending Water Level (feet):**	15.93
Water column (feet):	56.43	**Total Purged (gallons):**	2¼+
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 / DLLCYVØ6		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1107	½	15.68	7.79	2.59	5.5	0.00	18.51	-76
1111	1	15.73	7.74	2.58	4.1	0.00	18.60	-96
1115	1½	15.80	7.69	2.58	0.4	0.00	18.59	-117
1117	1¾	15.84	7.68	2.57	0.0	0.00	18.61	-117
1119	2	15.87	7.68	2.57	0.0	0.00	18.63	-117
1121	2¼	15.93	7.68	2.57	0.0	0.00	18.64	-119

Purge Sampling Rates: 60 PSI Refill (3) Discharge (9)

Well condition: OK - HEAVY VEGETATION AROUND WELL. REQUIRED CARRYING EQUIPMENT TO WELL DUE TO MUDSLIDE IN VICINITY OF WELL, BLOCKING ACCESS PATH TO WELL

Additional Info/Comments: LIGHT RAIN, COLD, WINDY

Name: NICHOLAS PEARSON **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: DW-2 Date: 3/21/2023

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: WATER FLOWING NEXT TO WELL MONUMENT. HAD TO CARRY SAMPLING EQUIPMENT DUE TO MUDSLIDE IN VICINITY OF WELL

Concrete Pad:

Integrity: Good: _____ Inadequate: _____

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

Remarks: CONCRETE PAD IS BURIED. FLOWING WATER NEXT TO MONUMENT

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: _____

Measurment 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 3/21/2023

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name: Sunshine Cyn
Well I.D.: DW-3
Collected By: BS
Casing Diameter (inches): 4
Starting Water Level: 158.39
Total Depth (feet):
Water column (feet):
Screen Length (feet):
Sample Method: (Micro Purge) Low Flow
Horiba Model S/N: RBJ5494L

Project No.: 522.1032
Sampling Date: 03-21-23
Purge start Time: 0832
Purge Stop time: 0858
Sampling (Well Recovery) Time: 0905
Ending Water Level (feet): 162.38
Total Purged (gallons): 2.75
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	159.14	6.94	2.09	←	1.29	19.40	-100
0842	1	159.78	6.93	2.06	←	1.18	19.45	-104
0845	1 1/4	160.37	6.98	2.08	←	1.06	19.46	-108
0848	1 3/4	160.93	7.01	2.08	←	0.91	19.81	-113
0852	2	161.66	7.03	2.07	←	0.83	19.93	-116
0856	2 1/2	161.99	7.02	2.07	←	0.76	19.96	-120
0859	2 3/4	162.61	7.02	2.06	←	0.72	19.95	-123

Purge Sampling Rates: P:2 S:5 @ 1:40, R:40 D:15
Flow = approx 375 mL

Well condition: ok

Additional Info/Comments: Cold, very windy, raining.

Name: Bert Sakinas Signature: Bert Sakinas

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Gym Well ID: DW-3 Date: 3/21/22

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:

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: _____

Measurment 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] GW Manager 3/21/22

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Cyn	**Project No.:**	822.1032
Well I.D.:	DW-5	**Sampling Date:**	3-21-23
Collected By:	RS	**Purge start Time:**	1042
Casing Diameter (inches):	4	**Purge Stop time:**	1108
Starting Water Level:	12.96	**Sampling (Well Recovery) Time:**	1114
Total Depth (feet):	100.45	**Ending Water Level (feet):**	14.65
Water column (feet):	87.49	**Total Purged (gallons):**	3
Screen Length (feet):		**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	R2554944		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
10.48	3/4	13.24	7.77	1.83	7.3	0.64	18.75	-42
1052	1	13.48	7.74	1.83	5.4	0.18	18.95	-48
1056	1 1/4	13.70	7.75	1.83	2.8	←	19.06	-60
1100	2 1/4	14.02	7.79	1.85	2.6	←	19.33	-94
1103	2 1/2	14.41	7.80	1.84	3.4	←	19.46	-107
1105	2 3/4	14.73	7.81	1.84	3.6	←	19.46	-112
1108	3	14.98	7.81	1.84	3.2	←	19.47	-118

Purge Sampling Rates: P:55, R:30, D:18

Water has a light yellow tint with some odor

Well condition: OK

Additional Info/Comments: Rainy, cold

Name: Ben Sellers **Signature:** Ben Sellers

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Cyn. Well ID: DW-5 Date: 3/21/23

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 apron is not visible (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: _____

Measurment 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] Crew Manager 3/21/23

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Sunshine Cyn. **Project No.:** 2022.1032

Station I.D.: Combined Subdrains
Collected By: RS
Horiba Model S/N: RSJSN94H

Sampling Date: 03-20-23
Sampling Time: 1150
Duplicate Sample: YES (NO)

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
clear	Yes	5.53	3.21	5.7	1.83	21.87	76

Surface water conditions (including stream flow rate, stream depth): Samples taken from the same sample Port as always. Outlet looks much cleaned with less than normal strong color.

Additional Info/Comments: Overcast, cool

Bert Salmons

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GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Sunshine Cyn. **Project No.:** SBR.1852

Station I.D.: CY-6
Collected By: BG
Horiba Model S/N: N/A

Sampling Date: 03/21/23
Sampling Time: —
Duplicate Sample: YES NO

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

Surface water conditions (including stream flow rate, stream depth): The transducer maybe dry. Check with Mark Vincent for the latest elevation

Additional Info/Comments: Rain, cold

Brent Hollis

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GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Sunshine Gas **Project No.:** 5022.1032

Station I.D.: LX-7 **Sampling Date:** 03-20-23
Collected By: RES **Sampling Time:** 0911
Horiba Model S/N: R8JS494H **Duplicate Sample:** YES (NO)

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Yellow	Yes	6.34	15.0	6	2.61	19.76	-109

Surface water conditions (including stream flow rate, stream depth): Sample taken @ effluent sample port.

Additional Info/Comments: Aerators, drizzling, cool

B. Sabins

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GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Sunshine Cyn **Project No.:** SOR.1832

Station I.D.: Terminal Penn underdrain **Sampling Date:** 03/21/23

Collected By: RZS **Sampling Time:** —

Horiba Model S/N: — N/A — **Duplicate Sample:** YES NO

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
	—		NA	—		—	

Surface water conditions (including stream flow rate, stream depth): Per Kyle Weldmans & Paul Koster, no need to sample on this event. Too muddy, high river and not approved by the water board yet.

Additional Info/Comments: Rain, cold

Brent Shelton

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name: Sunshine Gas

Well I.D.: Subdrain N

Collected By: BS

Casing Diameter (inches):

Starting Water Level:

Total Depth (feet):

Water column (feet):

Screen Length (feet):

Sample Method: Micro Purge / Low Flow

Horiba Model S/N:

Project No.: 5022.182

Sampling Date: 03-21-23

Purge start Time:

Purge Stop time:

Sampling (Well Recovery) Time:

Ending Water Level (feet):

Total Purged (gallons):

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

Purge Sampling Rates: The subdrain is currently not available due to new construction

Well condition:

Additional Info/Comments: Raining, cold, windy

Name: Bert Salinas Signature:

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sensitive Gr. **PROJECT NAME / NUMBER** S22-1032

Instrument Make/Model #	Horiba U-52 RBTJ54MH					
Date/Time 3-20-23 0648	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	3.91	4.54	0.8	11.22		
Calibration	4.01	4.49	←	9.38		
Calibration Successful? (Y/N)	Yes	→	→	→	enter YES or NO	
Satifies Protocol?	Yes	→	→	→	Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	BS	→	→	→	Signature or initials	
Physical Condition of Unit		Good				

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon **PROJECT NAME / NUMBER** _____

Instrument Make/Model # U-52 WQCP86RS						
Date/Time 3-2023 0726	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.33	4.38	0.0	12.42		
Calibration	4.00	4.50	0.0	10.50		
Calibration Successful? (Y/N)	YES	~			enter YES or NO	
Satifies Protocol?	YES	~			Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by CRV		~			Signature or initials	
Physical Condition of Unit OK						

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) SUNSHINE CANYON **PROJECT NAME / NUMBER** _____

Instrument Make/Model #	HORIBA U-52 (DLLCYW06)					
Date/Time 3/20/2023 0935	pH	Electrical Conductivity (µMhos/cm) (4.49 mg/Kg)	Turbidity (NTU) (0)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	3.79	4.50	0.1	12.13		
Calibration	4.00	4.50	0.0	10.35		
Calibration Successful? (Y/N)	Y				enter YES or NO	
Satifies Protocol?	Y				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	NR				Signature or initials	
Physical Condition of Unit	GOOD					

Geo-Logic
ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Cyn **PROJECT NAME / NUMBER** SRR. 1832

Instrument Make/Model # R8J5494H						
Date/Time 3/21/13 0708	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	3.96	4.53	0.3	10.46		
Calibration	3.99	4.50	←	9.49		
Calibration Successful? (Y/N)	Yes	→	→	→	enter YES or NO	
Satifies Protocol?	Yes	→	→	→	Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	BS	→	→	→	Signature or initials	
Physical Condition of Unit	Good					

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon **PROJECT NAME / NUMBER** 5022.1032

Instrument Make/Model #						
Date/Time 3-21-23 0645	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.02	4.55	1.4	13.18		
Calibration	4.00	4.50	0.0	9.55		
Calibration Successful? (Y/N)	Yes				enter YES or NO	
Satifies Protocol?	Yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	CRV				Signature or initials	
Physical Condition of Unit		OK				

Geo-Logic
ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon **PROJECT NAME / NUMBER** 5022.1032

Instrument Make/Model #	HORIBA U-52 (DLLQYV86)					
Date/Time 3/21/2023 0800	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.48	4.47	1.0	10.68		
Calibration	3.99	4.49	0.0	10.85		
Calibration Successful? (Y/N)	Y				enter YES or NO	
Satifies Protocol?	Y				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	NR				Signature or initials	
Physical Condition of Unit	GOOD					

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Welchans
Geo-Logic Associates
11415 West Bernardo Court
Suite 200
San Diego, California 92127

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JOB DESCRIPTION

Republic Sunshine Canyon

JOB NUMBER

570-131897-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

my EOL

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

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Authorized for release by
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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-131897-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-131897-1

Comments
No additional comments.

Receipt
The samples were received on 3/20/2023 6:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.8º C, 2.1º C and 3.0º C.

GC/MS VOA
Method 8260B: The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 570-313571: Acrolein. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-313571. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: LY-7 (570-131897-8). Elevated reporting limits (RLs) are provided.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-313670. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 570-313670: Acrolein. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM ID: Results for sample LY-7 (570-131897-8) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 570-314843 were outside control limits for Chloride: (570-131897-M-1 MS) and (570-131897-M-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Methods 6010/3005A: The reference method requires samples to be preserved to a pH of <2. The following samples were received with insufficient preservation at a pH of >2: Effluent Sample 3/20/23 (570-131877-1) and LY-7 (570-131897-8). The sample(s) was preserved to the appropriate pH in the laboratory.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 410.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch

Job ID: 570-131897-1 (Continued)

Laboratory: Eurofins Calscience (Continued)

570-313844 and analytical batch 570-313973 were outside control limits: (570-131897-I-1-B MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-313778. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method: 8270_Sim_MS_ID.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-314427. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method: 8270_Sim_MS_ID.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: CM-9R3 — Lab Sample ID: 570-131897-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16	F1	10	3.6	mg/L	10		300.0	Total/NA
Potassium	9.9		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	0.16		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	59	J F1	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	35		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2800		20	17	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	15		5.0	2.6	mg/L	10		SM 5310D	Total/NA

Client Sample ID: CM-10R — Lab Sample ID: 570-131897-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.7	J	10	3.6	mg/L	10		300.0	Total/NA
Potassium	13		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	9.0		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	43	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	260		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2800		20	17	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.7		0.50	0.26	mg/L	1		SM 5310D	Total/NA

Client Sample ID: CM-11R — Lab Sample ID: 570-131897-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		10	3.6	mg/L	10		300.0	Total/NA
Potassium	9.2		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	0.83		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	29	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	41		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3100		33	29	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	5.5		2.0	1.1	mg/L	4		SM 5310D	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 570-131897-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.9	J	10	3.6	mg/L	10		300.0	Total/NA
Potassium	0.85	J	2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	0.17		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	22	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	280		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1700		20	17	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	4.3		2.0	1.1	mg/L	4		SM 5310D	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 570-131897-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20		20	7.2	mg/L	20		300.0	Total/NA
Potassium	7.5		2.0	0.58	mg/L	1		6010B	Total Recoverable
Chemical Oxygen Demand	71	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	350		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5300		50	44	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: MW-14 (Continued) — Lab Sample ID: 570-131897-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	7.1		2.0	1.1	mg/L	4		SM 5310D	Total/NA

Client Sample ID: PZ-2 — Lab Sample ID: 570-131897-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16	J	20	7.2	mg/L	20		300.0	Total/NA
Potassium	3.9		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	3.0		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	43	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	330		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	4300		100	87	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.4		0.50	0.26	mg/L	1		SM 5310D	Total/NA

Client Sample ID: Duplicate — Lab Sample ID: 570-131897-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.7	J	10	3.6	mg/L	10		300.0	Total/NA
Potassium	13		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	9.0		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	29	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	260		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2700		20	17	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	2.7		0.50	0.26	mg/L	1		SM 5310D	Total/NA

Client Sample ID: LY-7 — Lab Sample ID: 570-131897-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	6.7		2.0	0.45	ug/L	4		8260B	Total/NA
Benzene	4.3		2.0	0.55	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	1.5	J	2.0	0.62	ug/L	4		8260B	Total/NA
Methyl tert-butyl ether	0.79	J	2.0	0.57	ug/L	4		8260B	Total/NA
t-Butanol	660		20	13	ug/L	4		8260B	Total/NA
Tetrahydrofuran	12		8.0	5.2	ug/L	4		8260B	Total/NA
1,4-Dioxane - DL	140		3.9	2.7	ug/L	10		8270C SIM ID	Total/NA
Chloride	2700		100	36	mg/L	100		300.0	Total/NA
Potassium	210		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	290		3.8	1.6	mg/L	50		350.1	Total/NA
Chemical Oxygen Demand	1000		100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	2500		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	9400		100	87	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	320		50	26	mg/L	100		SM 5310D	Total/NA

Client Sample ID: Combined Subdrains — Lab Sample ID: 570-131897-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	2.7		0.50	0.11	ug/L	1		8260B	Total/NA
Benzene	0.61		0.50	0.14	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.46	J	0.50	0.16	ug/L	1		8260B	Total/NA
Chlorobenzene	0.14	J	0.50	0.12	ug/L	1		8260B	Total/NA
Ethylbenzene	0.25	J	0.50	0.16	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	0.24	J	0.50	0.14	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: Combined Subdrains (Continued) — Lab Sample ID: 570-131897-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15		10	3.6	mg/L	10		300.0	Total/NA
Potassium	15		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	1.3		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	57	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	210		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3300		33	29	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	14		0.50	0.26	mg/L	1		SM 5310D	Total/NA

Client Sample ID: Field Blank — Lab Sample ID: 570-131897-10

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 570-131897-11

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: CM-9R3
Date Collected: 03/20/23 11:45
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/21/23 23:12	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/21/23 23:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/21/23 23:12	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/21/23 23:12	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/21/23 23:12	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/21/23 23:12	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/21/23 23:12	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/21/23 23:12	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/21/23 23:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/21/23 23:12	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/21/23 23:12	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/21/23 23:12	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/21/23 23:12	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/21/23 23:12	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/21/23 23:12	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/21/23 23:12	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/21/23 23:12	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/21/23 23:12	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/21/23 23:12	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/21/23 23:12	1
2-Hexanone	ND		6.0	2.0	ug/L			03/21/23 23:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/21/23 23:12	1
Acetone	ND		8.0	3.6	ug/L			03/21/23 23:12	1
Acrolein	ND	*-	4.0	3.6	ug/L			03/21/23 23:12	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/21/23 23:12	1
Allyl chloride	ND		2.0	0.47	ug/L			03/21/23 23:12	1
Benzene	ND		0.50	0.14	ug/L			03/21/23 23:12	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/21/23 23:12	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/21/23 23:12	1
Bromoform	ND		0.50	0.28	ug/L			03/21/23 23:12	1
Bromomethane	ND		2.0	1.9	ug/L			03/21/23 23:12	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/21/23 23:12	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/21/23 23:12	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/21/23 23:12	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/21/23 23:12	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/21/23 23:12	1
Chloroethane	ND		0.50	0.38	ug/L			03/21/23 23:12	1
Chloroform	ND		0.50	0.17	ug/L			03/21/23 23:12	1
Chloromethane	ND		1.0	0.65	ug/L			03/21/23 23:12	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/21/23 23:12	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/21/23 23:12	1
Dibromomethane	ND		0.50	0.16	ug/L			03/21/23 23:12	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/21/23 23:12	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/21/23 23:12	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/21/23 23:12	1
Iodomethane	ND		25	8.7	ug/L			03/21/23 23:12	1
Isobutyl alcohol	ND		50	35	ug/L			03/21/23 23:12	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/21/23 23:12	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/21/23 23:12	1

Client Sample ID: CM-9R3

Date Collected: 03/20/23 11:45
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/21/23 23:12	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/21/23 23:12	1
Naphthalene	ND		1.0	0.55	ug/L			03/21/23 23:12	1
o-Xylene	ND		0.50	0.18	ug/L			03/21/23 23:12	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/21/23 23:12	1
Propionitrile	ND		5.0	3.1	ug/L			03/21/23 23:12	1
Styrene	ND		0.50	0.27	ug/L			03/21/23 23:12	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/21/23 23:12	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/21/23 23:12	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/21/23 23:12	1
t-Butanol	ND		5.0	3.1	ug/L			03/21/23 23:12	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/21/23 23:12	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/21/23 23:12	1
Toluene	ND		0.50	0.14	ug/L			03/21/23 23:12	1
Trichloroethene	ND		0.50	0.15	ug/L			03/21/23 23:12	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/21/23 23:12	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/21/23 23:12	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/21/23 23:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/21/23 23:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 132*		*03/21/23 23:12*	*1*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*03/21/23 23:12*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*03/21/23 23:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/21/23 23:12*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.37	0.26	ug/L		03/23/23 07:00	03/24/23 07:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*21 - 120*	*03/23/23 07:00*	*03/24/23 07:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*72*		*58 - 135*	*03/23/23 07:00*	*03/24/23 07:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16**	**F1**	10	3.6	mg/L			03/27/23 07:52	10

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**9.9**		2.0	0.58	mg/L		03/22/23 09:15	03/27/23 19:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**0.16**		0.075	0.032	mg/L		03/29/23 12:02	03/29/23 14:02	1
Chemical Oxygen Demand (EPA 410.4)	**59**	**J F1**	100	14	mg/L		03/22/23 14:52	03/22/23 21:42	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: CM-9R3
Date Collected: 03/20/23 11:45
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	35		5.0	2.2	mg/L			03/24/23 22:22	1
Total Dissolved Solids (SM 2540C)	2800		20	17	mg/L			03/22/23 18:27	1
Total Organic Carbon (SM 5310D)	15		5.0	2.6	mg/L			04/03/23 17:39	10

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: CM-10R
Date Collected: 03/20/23 13:24
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/21/23 23:37	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/21/23 23:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/21/23 23:37	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/21/23 23:37	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/21/23 23:37	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/21/23 23:37	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/21/23 23:37	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/21/23 23:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/21/23 23:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/21/23 23:37	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/21/23 23:37	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/21/23 23:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/21/23 23:37	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/21/23 23:37	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/21/23 23:37	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/21/23 23:37	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/21/23 23:37	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/21/23 23:37	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/21/23 23:37	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/21/23 23:37	1
2-Hexanone	ND		6.0	2.0	ug/L			03/21/23 23:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/21/23 23:37	1
Acetone	ND		8.0	3.6	ug/L			03/21/23 23:37	1
Acrolein	ND	*-	4.0	3.6	ug/L			03/21/23 23:37	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/21/23 23:37	1
Allyl chloride	ND		2.0	0.47	ug/L			03/21/23 23:37	1
Benzene	ND		0.50	0.14	ug/L			03/21/23 23:37	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/21/23 23:37	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/21/23 23:37	1
Bromoform	ND		0.50	0.28	ug/L			03/21/23 23:37	1
Bromomethane	ND		2.0	1.9	ug/L			03/21/23 23:37	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/21/23 23:37	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/21/23 23:37	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/21/23 23:37	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/21/23 23:37	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/21/23 23:37	1
Chloroethane	ND		0.50	0.38	ug/L			03/21/23 23:37	1
Chloroform	ND		0.50	0.17	ug/L			03/21/23 23:37	1
Chloromethane	ND		1.0	0.65	ug/L			03/21/23 23:37	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/21/23 23:37	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/21/23 23:37	1
Dibromomethane	ND		0.50	0.16	ug/L			03/21/23 23:37	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/21/23 23:37	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/21/23 23:37	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/21/23 23:37	1
Iodomethane	ND		25	8.7	ug/L			03/21/23 23:37	1
Isobutyl alcohol	ND		50	35	ug/L			03/21/23 23:37	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/21/23 23:37	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/21/23 23:37	1

Client Sample ID: CM-10R
Date Collected: 03/20/23 13:24
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/21/23 23:37	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/21/23 23:37	1
Naphthalene	ND		1.0	0.55	ug/L			03/21/23 23:37	1
o-Xylene	ND		0.50	0.18	ug/L			03/21/23 23:37	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/21/23 23:37	1
Propionitrile	ND		5.0	3.1	ug/L			03/21/23 23:37	1
Styrene	ND		0.50	0.27	ug/L			03/21/23 23:37	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/21/23 23:37	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/21/23 23:37	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/21/23 23:37	1
t-Butanol	ND		5.0	3.1	ug/L			03/21/23 23:37	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/21/23 23:37	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/21/23 23:37	1
Toluene	ND		0.50	0.14	ug/L			03/21/23 23:37	1
Trichloroethene	ND		0.50	0.15	ug/L			03/21/23 23:37	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/21/23 23:37	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/21/23 23:37	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/21/23 23:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/21/23 23:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 132*		*03/21/23 23:37*	*1*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*03/21/23 23:37*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*03/21/23 23:37*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/21/23 23:37*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.37	0.26	ug/L		03/23/23 07:00	03/24/23 07:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*21 - 120*	*03/23/23 07:00*	*03/24/23 07:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*66*		*58 - 135*	*03/23/23 07:00*	*03/24/23 07:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.7**	**J**	10	3.6	mg/L			03/27/23 08:09	10

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**13**		2.0	0.58	mg/L		03/22/23 09:15	03/27/23 19:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**9.0**		0.075	0.032	mg/L		03/29/23 12:02	03/29/23 14:03	1
Chemical Oxygen Demand (EPA 410.4)	**43**	**J**	100	14	mg/L		03/22/23 14:52	03/22/23 21:42	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: CM-10R
Date Collected: 03/20/23 13:24
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	260		5.0	2.2	mg/L			03/24/23 22:29	1
Total Dissolved Solids (SM 2540C)	2800		20	17	mg/L			03/22/23 18:27	1
Total Organic Carbon (SM 5310D)	2.7		0.50	0.26	mg/L			04/04/23 18:14	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: CM-11R
Date Collected: 03/20/23 15:08
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/22/23 00:02	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/22/23 00:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/22/23 00:02	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/22/23 00:02	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/22/23 00:02	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/22/23 00:02	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/22/23 00:02	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/22/23 00:02	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/22/23 00:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/22/23 00:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/22/23 00:02	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/22/23 00:02	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/22/23 00:02	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/22/23 00:02	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/22/23 00:02	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/22/23 00:02	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/22/23 00:02	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/22/23 00:02	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/22/23 00:02	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/22/23 00:02	1
2-Hexanone	ND		6.0	2.0	ug/L			03/22/23 00:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/22/23 00:02	1
Acetone	ND		8.0	3.6	ug/L			03/22/23 00:02	1
Acrolein	ND	*-	4.0	3.6	ug/L			03/22/23 00:02	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/22/23 00:02	1
Allyl chloride	ND		2.0	0.47	ug/L			03/22/23 00:02	1
Benzene	ND		0.50	0.14	ug/L			03/22/23 00:02	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/22/23 00:02	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/22/23 00:02	1
Bromoform	ND		0.50	0.28	ug/L			03/22/23 00:02	1
Bromomethane	ND		2.0	1.9	ug/L			03/22/23 00:02	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/22/23 00:02	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/22/23 00:02	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/22/23 00:02	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/22/23 00:02	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/22/23 00:02	1
Chloroethane	ND		0.50	0.38	ug/L			03/22/23 00:02	1
Chloroform	ND		0.50	0.17	ug/L			03/22/23 00:02	1
Chloromethane	ND		1.0	0.65	ug/L			03/22/23 00:02	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/22/23 00:02	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/22/23 00:02	1
Dibromomethane	ND		0.50	0.16	ug/L			03/22/23 00:02	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/22/23 00:02	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/22/23 00:02	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/22/23 00:02	1
Iodomethane	ND		25	8.7	ug/L			03/22/23 00:02	1
Isobutyl alcohol	ND		50	35	ug/L			03/22/23 00:02	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/22/23 00:02	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/22/23 00:02	1

Client Sample ID: CM-11R

Date Collected: 03/20/23 15:08
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/22/23 00:02	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/22/23 00:02	1
Naphthalene	ND		1.0	0.55	ug/L			03/22/23 00:02	1
o-Xylene	ND		0.50	0.18	ug/L			03/22/23 00:02	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/22/23 00:02	1
Propionitrile	ND		5.0	3.1	ug/L			03/22/23 00:02	1
Styrene	ND		0.50	0.27	ug/L			03/22/23 00:02	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/22/23 00:02	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/22/23 00:02	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/22/23 00:02	1
t-Butanol	ND		5.0	3.1	ug/L			03/22/23 00:02	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/22/23 00:02	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/22/23 00:02	1
Toluene	ND		0.50	0.14	ug/L			03/22/23 00:02	1
Trichloroethene	ND		0.50	0.15	ug/L			03/22/23 00:02	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/22/23 00:02	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/22/23 00:02	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/22/23 00:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/22/23 00:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*64 - 132*		*03/22/23 00:02*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*03/22/23 00:02*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*03/22/23 00:02*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/22/23 00:02*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.37	0.26	ug/L		03/23/23 07:00	03/24/23 07:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*21 - 120*	*03/23/23 07:00*	*03/24/23 07:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*91*		*58 - 135*	*03/23/23 07:00*	*03/24/23 07:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		10	3.6	mg/L			03/27/23 08:26	10

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**9.2**		2.0	0.58	mg/L		03/22/23 09:15	03/27/23 19:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**0.83**		0.075	0.032	mg/L		03/29/23 12:02	03/29/23 14:05	1
Chemical Oxygen Demand (EPA 410.4)	**29**	**J**	100	14	mg/L		03/22/23 14:52	03/22/23 21:42	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: CM-11R
Date Collected: 03/20/23 15:08
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	41		5.0	2.2	mg/L			03/24/23 22:34	1
Total Dissolved Solids (SM 2540C)	3100		33	29	mg/L			03/22/23 18:27	1
Total Organic Carbon (SM 5310D)	5.5		2.0	1.1	mg/L			04/03/23 23:41	4

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: MW-6
Date Collected: 03/20/23 13:14
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/22/23 00:27	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/22/23 00:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/22/23 00:27	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/22/23 00:27	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/22/23 00:27	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/22/23 00:27	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/22/23 00:27	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/22/23 00:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/22/23 00:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/22/23 00:27	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/22/23 00:27	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/22/23 00:27	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/22/23 00:27	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/22/23 00:27	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/22/23 00:27	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/22/23 00:27	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/22/23 00:27	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/22/23 00:27	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/22/23 00:27	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/22/23 00:27	1
2-Hexanone	ND		6.0	2.0	ug/L			03/22/23 00:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/22/23 00:27	1
Acetone	ND		8.0	3.6	ug/L			03/22/23 00:27	1
Acrolein	ND	*-	4.0	3.6	ug/L			03/22/23 00:27	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/22/23 00:27	1
Allyl chloride	ND		2.0	0.47	ug/L			03/22/23 00:27	1
Benzene	ND		0.50	0.14	ug/L			03/22/23 00:27	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/22/23 00:27	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/22/23 00:27	1
Bromoform	ND		0.50	0.28	ug/L			03/22/23 00:27	1
Bromomethane	ND		2.0	1.9	ug/L			03/22/23 00:27	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/22/23 00:27	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/22/23 00:27	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/22/23 00:27	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/22/23 00:27	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/22/23 00:27	1
Chloroethane	ND		0.50	0.38	ug/L			03/22/23 00:27	1
Chloroform	ND		0.50	0.17	ug/L			03/22/23 00:27	1
Chloromethane	ND		1.0	0.65	ug/L			03/22/23 00:27	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/22/23 00:27	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/22/23 00:27	1
Dibromomethane	ND		0.50	0.16	ug/L			03/22/23 00:27	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/22/23 00:27	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/22/23 00:27	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/22/23 00:27	1
Iodomethane	ND		25	8.7	ug/L			03/22/23 00:27	1
Isobutyl alcohol	ND		50	35	ug/L			03/22/23 00:27	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/22/23 00:27	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/22/23 00:27	1

Client Sample ID: MW-6

Date Collected: 03/20/23 13:14
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/22/23 00:27	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/22/23 00:27	1
Naphthalene	ND		1.0	0.55	ug/L			03/22/23 00:27	1
o-Xylene	ND		0.50	0.18	ug/L			03/22/23 00:27	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/22/23 00:27	1
Propionitrile	ND		5.0	3.1	ug/L			03/22/23 00:27	1
Styrene	ND		0.50	0.27	ug/L			03/22/23 00:27	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/22/23 00:27	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/22/23 00:27	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/22/23 00:27	1
t-Butanol	ND		5.0	3.1	ug/L			03/22/23 00:27	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/22/23 00:27	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/22/23 00:27	1
Toluene	ND		0.50	0.14	ug/L			03/22/23 00:27	1
Trichloroethene	ND		0.50	0.15	ug/L			03/22/23 00:27	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/22/23 00:27	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/22/23 00:27	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/22/23 00:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/22/23 00:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 132*		*03/22/23 00:27*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*03/22/23 00:27*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/22/23 00:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/22/23 00:27*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.38	0.26	ug/L		03/23/23 07:00	03/24/23 07:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*34*		*21 - 120*	*03/23/23 07:00*	*03/24/23 07:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*68*		*58 - 135*	*03/23/23 07:00*	*03/24/23 07:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.9**	**J**	10	3.6	mg/L			03/27/23 08:42	10

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**0.85**	**J**	2.0	0.58	mg/L		03/22/23 09:15	03/27/23 19:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**0.17**		0.075	0.032	mg/L		03/29/23 12:02	03/29/23 14:06	1
Chemical Oxygen Demand (EPA 410.4)	**22**	**J**	100	14	mg/L		03/22/23 14:52	03/22/23 21:42	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: MW-6
Date Collected: 03/20/23 13:14
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	280		5.0	2.2	mg/L			03/24/23 22:41	1
Total Dissolved Solids (SM 2540C)	1700		20	17	mg/L			03/22/23 18:27	1
Total Organic Carbon (SM 5310D)	4.3		2.0	1.1	mg/L			04/04/23 00:03	4

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: MW-14
Date Collected: 03/20/23 11:25
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/22/23 02:32	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/22/23 02:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/22/23 02:32	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/22/23 02:32	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/22/23 02:32	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/22/23 02:32	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/22/23 02:32	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/22/23 02:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/22/23 02:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/22/23 02:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/22/23 02:32	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/22/23 02:32	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/22/23 02:32	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/22/23 02:32	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/22/23 02:32	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/22/23 02:32	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/22/23 02:32	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/22/23 02:32	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/22/23 02:32	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/22/23 02:32	1
2-Hexanone	ND		6.0	2.0	ug/L			03/22/23 02:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/22/23 02:32	1
Acetone	ND		8.0	3.6	ug/L			03/22/23 02:32	1
Acrolein	ND	*-	4.0	3.6	ug/L			03/22/23 02:32	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/22/23 02:32	1
Allyl chloride	ND		2.0	0.47	ug/L			03/22/23 02:32	1
Benzene	ND		0.50	0.14	ug/L			03/22/23 02:32	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/22/23 02:32	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/22/23 02:32	1
Bromoform	ND		0.50	0.28	ug/L			03/22/23 02:32	1
Bromomethane	ND		2.0	1.9	ug/L			03/22/23 02:32	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/22/23 02:32	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/22/23 02:32	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/22/23 02:32	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/22/23 02:32	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/22/23 02:32	1
Chloroethane	ND		0.50	0.38	ug/L			03/22/23 02:32	1
Chloroform	ND		0.50	0.17	ug/L			03/22/23 02:32	1
Chloromethane	ND		1.0	0.65	ug/L			03/22/23 02:32	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/22/23 02:32	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/22/23 02:32	1
Dibromomethane	ND		0.50	0.16	ug/L			03/22/23 02:32	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/22/23 02:32	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/22/23 02:32	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/22/23 02:32	1
Iodomethane	ND		25	8.7	ug/L			03/22/23 02:32	1
Isobutyl alcohol	ND		50	35	ug/L			03/22/23 02:32	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/22/23 02:32	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/22/23 02:32	1

Client Sample ID: MW-14

Date Collected: 03/20/23 11:25
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-5

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/22/23 02:32	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/22/23 02:32	1
Naphthalene	ND		1.0	0.55	ug/L			03/22/23 02:32	1
o-Xylene	ND		0.50	0.18	ug/L			03/22/23 02:32	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/22/23 02:32	1
Propionitrile	ND		5.0	3.1	ug/L			03/22/23 02:32	1
Styrene	ND		0.50	0.27	ug/L			03/22/23 02:32	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/22/23 02:32	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/22/23 02:32	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/22/23 02:32	1
t-Butanol	ND		5.0	3.1	ug/L			03/22/23 02:32	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/22/23 02:32	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/22/23 02:32	1
Toluene	ND		0.50	0.14	ug/L			03/22/23 02:32	1
Trichloroethene	ND		0.50	0.15	ug/L			03/22/23 02:32	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/22/23 02:32	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/22/23 02:32	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/22/23 02:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/22/23 02:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*64 - 132*		*03/22/23 02:32*	*1*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*03/22/23 02:32*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*03/22/23 02:32*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/22/23 02:32*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.37	0.25	ug/L		03/23/23 07:00	03/24/23 08:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*21 - 120*	*03/23/23 07:00*	*03/24/23 08:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*70*		*58 - 135*	*03/23/23 07:00*	*03/24/23 08:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20**		20	7.2	mg/L			03/27/23 08:59	20

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**7.5**		2.0	0.58	mg/L		03/22/23 09:15	03/27/23 19:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	ND		0.075	0.032	mg/L		03/29/23 12:02	03/29/23 14:08	1
Chemical Oxygen Demand (EPA 410.4)	**71**	**J**	100	14	mg/L		03/22/23 14:52	03/22/23 21:42	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: MW-14
Date Collected: 03/20/23 11:25
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	350		5.0	2.2	mg/L			03/24/23 22:47	1
Total Dissolved Solids (SM 2540C)	5300		50	44	mg/L			03/22/23 18:27	1
Total Organic Carbon (SM 5310D)	7.1		2.0	1.1	mg/L			04/04/23 00:47	4

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: PZ-2
Date Collected: 03/20/23 10:02
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/22/23 00:52	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/22/23 00:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/22/23 00:52	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/22/23 00:52	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/22/23 00:52	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/22/23 00:52	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/22/23 00:52	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/22/23 00:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/22/23 00:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/22/23 00:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/22/23 00:52	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/22/23 00:52	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/22/23 00:52	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/22/23 00:52	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/22/23 00:52	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/22/23 00:52	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/22/23 00:52	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/22/23 00:52	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/22/23 00:52	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/22/23 00:52	1
2-Hexanone	ND		6.0	2.0	ug/L			03/22/23 00:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/22/23 00:52	1
Acetone	ND		8.0	3.6	ug/L			03/22/23 00:52	1
Acrolein	ND	*-	4.0	3.6	ug/L			03/22/23 00:52	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/22/23 00:52	1
Allyl chloride	ND		2.0	0.47	ug/L			03/22/23 00:52	1
Benzene	ND		0.50	0.14	ug/L			03/22/23 00:52	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/22/23 00:52	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/22/23 00:52	1
Bromoform	ND		0.50	0.28	ug/L			03/22/23 00:52	1
Bromomethane	ND		2.0	1.9	ug/L			03/22/23 00:52	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/22/23 00:52	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/22/23 00:52	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/22/23 00:52	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/22/23 00:52	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/22/23 00:52	1
Chloroethane	ND		0.50	0.38	ug/L			03/22/23 00:52	1
Chloroform	ND		0.50	0.17	ug/L			03/22/23 00:52	1
Chloromethane	ND		1.0	0.65	ug/L			03/22/23 00:52	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/22/23 00:52	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/22/23 00:52	1
Dibromomethane	ND		0.50	0.16	ug/L			03/22/23 00:52	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/22/23 00:52	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/22/23 00:52	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/22/23 00:52	1
Iodomethane	ND		25	8.7	ug/L			03/22/23 00:52	1
Isobutyl alcohol	ND		50	35	ug/L			03/22/23 00:52	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/22/23 00:52	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/22/23 00:52	1

Client Sample ID: PZ-2
Date Collected: 03/20/23 10:02
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/22/23 00:52	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/22/23 00:52	1
Naphthalene	ND		1.0	0.55	ug/L			03/22/23 00:52	1
o-Xylene	ND		0.50	0.18	ug/L			03/22/23 00:52	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/22/23 00:52	1
Propionitrile	ND		5.0	3.1	ug/L			03/22/23 00:52	1
Styrene	ND		0.50	0.27	ug/L			03/22/23 00:52	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/22/23 00:52	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/22/23 00:52	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/22/23 00:52	1
t-Butanol	ND		5.0	3.1	ug/L			03/22/23 00:52	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/22/23 00:52	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/22/23 00:52	1
Toluene	ND		0.50	0.14	ug/L			03/22/23 00:52	1
Trichloroethene	ND		0.50	0.15	ug/L			03/22/23 00:52	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/22/23 00:52	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/22/23 00:52	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/22/23 00:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/22/23 00:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*64 - 132*		*03/22/23 00:52*	*1*
4-Bromofluorobenzene (Surr)	*88*		*76 - 120*		*03/22/23 00:52*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*03/22/23 00:52*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/22/23 00:52*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.37	0.26	ug/L		03/24/23 09:02	03/24/23 18:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*24*		*21 - 120*	*03/24/23 09:02*	*03/24/23 18:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*73*		*58 - 135*	*03/24/23 09:02*	*03/24/23 18:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16**	**J**	20	7.2	mg/L			03/27/23 09:16	20

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**3.9**		2.0	0.58	mg/L		03/22/23 09:15	03/27/23 20:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**3.0**		0.075	0.032	mg/L		03/29/23 12:02	03/29/23 14:09	1
Chemical Oxygen Demand (EPA 410.4)	**43**	**J**	100	14	mg/L		03/22/23 14:52	03/22/23 21:42	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: PZ-2
Date Collected: 03/20/23 10:02
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-6
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	330		5.0	2.2	mg/L			03/24/23 22:54	1
Total Dissolved Solids (SM 2540C)	4300		100	87	mg/L			03/22/23 18:47	1
Total Organic Carbon (SM 5310D)	2.4		0.50	0.26	mg/L			04/04/23 17:07	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: Duplicate
Date Collected: 03/20/23 00:00
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/22/23 01:17	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/22/23 01:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/22/23 01:17	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/22/23 01:17	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/22/23 01:17	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/22/23 01:17	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/22/23 01:17	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/22/23 01:17	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/22/23 01:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/22/23 01:17	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/22/23 01:17	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/22/23 01:17	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/22/23 01:17	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/22/23 01:17	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/22/23 01:17	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/22/23 01:17	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/22/23 01:17	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/22/23 01:17	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/22/23 01:17	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/22/23 01:17	1
2-Hexanone	ND		6.0	2.0	ug/L			03/22/23 01:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/22/23 01:17	1
Acetone	ND		8.0	3.6	ug/L			03/22/23 01:17	1
Acrolein	ND	*-	4.0	3.6	ug/L			03/22/23 01:17	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/22/23 01:17	1
Allyl chloride	ND		2.0	0.47	ug/L			03/22/23 01:17	1
Benzene	ND		0.50	0.14	ug/L			03/22/23 01:17	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/22/23 01:17	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/22/23 01:17	1
Bromoform	ND		0.50	0.28	ug/L			03/22/23 01:17	1
Bromomethane	ND		2.0	1.9	ug/L			03/22/23 01:17	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/22/23 01:17	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/22/23 01:17	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/22/23 01:17	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/22/23 01:17	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/22/23 01:17	1
Chloroethane	ND		0.50	0.38	ug/L			03/22/23 01:17	1
Chloroform	ND		0.50	0.17	ug/L			03/22/23 01:17	1
Chloromethane	ND		1.0	0.65	ug/L			03/22/23 01:17	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/22/23 01:17	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/22/23 01:17	1
Dibromomethane	ND		0.50	0.16	ug/L			03/22/23 01:17	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/22/23 01:17	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/22/23 01:17	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/22/23 01:17	1
Iodomethane	ND		25	8.7	ug/L			03/22/23 01:17	1
Isobutyl alcohol	ND		50	35	ug/L			03/22/23 01:17	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/22/23 01:17	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/22/23 01:17	1

Client Sample ID: Duplicate

Date Collected: 03/20/23 00:00
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-7

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/22/23 01:17	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/22/23 01:17	1
Naphthalene	ND		1.0	0.55	ug/L			03/22/23 01:17	1
o-Xylene	ND		0.50	0.18	ug/L			03/22/23 01:17	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/22/23 01:17	1
Propionitrile	ND		5.0	3.1	ug/L			03/22/23 01:17	1
Styrene	ND		0.50	0.27	ug/L			03/22/23 01:17	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/22/23 01:17	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/22/23 01:17	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/22/23 01:17	1
t-Butanol	ND		5.0	3.1	ug/L			03/22/23 01:17	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/22/23 01:17	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/22/23 01:17	1
Toluene	ND		0.50	0.14	ug/L			03/22/23 01:17	1
Trichloroethene	ND		0.50	0.15	ug/L			03/22/23 01:17	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/22/23 01:17	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/22/23 01:17	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/22/23 01:17	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/22/23 01:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 132*		*03/22/23 01:17*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*03/22/23 01:17*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*03/22/23 01:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/22/23 01:17*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.37	0.25	ug/L		03/27/23 08:15	03/27/23 20:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*26*		*21 - 120*	*03/27/23 08:15*	*03/27/23 20:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*76*		*58 - 135*	*03/27/23 08:15*	*03/27/23 20:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.7**	**J**	10	3.6	mg/L			03/27/23 09:33	10

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**13**		2.0	0.58	mg/L		03/22/23 09:15	03/27/23 20:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**9.0**		0.075	0.032	mg/L		03/29/23 12:02	03/29/23 14:11	1
Chemical Oxygen Demand (EPA 410.4)	**29**	**J**	100	14	mg/L		03/22/23 14:52	03/22/23 21:42	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: Duplicate

Date Collected: 03/20/23 00:00
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-7

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	260		5.0	2.2	mg/L			03/24/23 23:01	1
Total Dissolved Solids (SM 2540C)	2700		20	17	mg/L			03/22/23 18:47	1
Total Organic Carbon (SM 5310D)	2.7		0.50	0.26	mg/L			04/04/23 17:29	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: LY-7
Date Collected: 03/20/23 09:11
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.80	ug/L			03/22/23 01:42	4
1,1,1-Trichloroethane	ND		2.0	0.79	ug/L			03/22/23 01:42	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.54	ug/L			03/22/23 01:42	4
1,1,2-Trichloroethane	ND		2.0	0.72	ug/L			03/22/23 01:42	4
1,1-Dichloroethane	ND		2.0	0.85	ug/L			03/22/23 01:42	4
1,1-Dichloroethene	ND		2.0	0.84	ug/L			03/22/23 01:42	4
1,1-Dichloropropene	ND		2.0	0.65	ug/L			03/22/23 01:42	4
1,2,3-Trichloropropane	ND		2.0	1.2	ug/L			03/22/23 01:42	4
1,2,4-Trichlorobenzene	ND		2.0	1.0	ug/L			03/22/23 01:42	4
1,2-Dibromo-3-Chloropropane	ND		4.0	3.4	ug/L			03/22/23 01:42	4
1,2-Dibromoethane (EDB)	ND		2.0	1.1	ug/L			03/22/23 01:42	4
1,2-Dichlorobenzene	ND		2.0	0.57	ug/L			03/22/23 01:42	4
1,2-Dichloroethane	ND		2.0	0.55	ug/L			03/22/23 01:42	4
1,2-Dichloropropane	ND		2.0	0.58	ug/L			03/22/23 01:42	4
1,3-Dichlorobenzene	ND		2.0	0.63	ug/L			03/22/23 01:42	4
1,3-Dichloropropane	ND		2.0	0.77	ug/L			03/22/23 01:42	4
1,4-Dichlorobenzene	**6.7**		2.0	0.45	ug/L			03/22/23 01:42	4
2,2-Dichloropropane	ND		2.0	1.0	ug/L			03/22/23 01:42	4
2-Butanone (MEK)	ND		20	11	ug/L			03/22/23 01:42	4
2-Chloroethyl vinyl ether	ND		20	18	ug/L			03/22/23 01:42	4
2-Hexanone	ND		24	8.2	ug/L			03/22/23 01:42	4
4-Methyl-2-pentanone (MIBK)	ND		20	6.5	ug/L			03/22/23 01:42	4
Acetone	ND		32	14	ug/L			03/22/23 01:42	4
Acrolein	ND	*-	16	14	ug/L			03/22/23 01:42	4
Acrylonitrile	ND		20	8.0	ug/L			03/22/23 01:42	4
Allyl chloride	ND		8.0	1.9	ug/L			03/22/23 01:42	4
Benzene	**4.3**		2.0	0.55	ug/L			03/22/23 01:42	4
Bromochloromethane	ND		4.0	1.1	ug/L			03/22/23 01:42	4
Bromodichloromethane	ND		2.0	0.61	ug/L			03/22/23 01:42	4
Bromoform	ND		2.0	1.1	ug/L			03/22/23 01:42	4
Bromomethane	ND		8.0	7.5	ug/L			03/22/23 01:42	4
cis-1,2-Dichloroethene	**1.5**	**J**	2.0	0.62	ug/L			03/22/23 01:42	4
cis-1,3-Dichloropropene	ND		2.0	0.62	ug/L			03/22/23 01:42	4
Carbon disulfide	ND		4.0	1.3	ug/L			03/22/23 01:42	4
Carbon tetrachloride	ND		2.0	1.1	ug/L			03/22/23 01:42	4
Chlorobenzene	ND		2.0	0.47	ug/L			03/22/23 01:42	4
Chloroethane	ND		2.0	1.5	ug/L			03/22/23 01:42	4
Chloroform	ND		2.0	0.68	ug/L			03/22/23 01:42	4
Chloromethane	ND		4.0	2.6	ug/L			03/22/23 01:42	4
2-Chloro-1,3-butadiene	ND		8.0	4.4	ug/L			03/22/23 01:42	4
Dibromochloromethane	ND		2.0	0.84	ug/L			03/22/23 01:42	4
Dibromomethane	ND		2.0	0.65	ug/L			03/22/23 01:42	4
Dichlorodifluoromethane	ND		4.0	2.0	ug/L			03/22/23 01:42	4
Ethyl methacrylate	ND		8.0	6.1	ug/L			03/22/23 01:42	4
Ethylbenzene	ND		2.0	0.66	ug/L			03/22/23 01:42	4
Iodomethane	ND		100	35	ug/L			03/22/23 01:42	4
Isobutyl alcohol	ND		200	140	ug/L			03/22/23 01:42	4
Methylacrylonitrile	ND		8.0	5.5	ug/L			03/22/23 01:42	4
Methyl methacrylate	ND		8.0	7.4	ug/L			03/22/23 01:42	4

Client Sample ID: LY-7

Date Collected: 03/20/23 09:11
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-8

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		4.0	1.6	ug/L			03/22/23 01:42	4
Methyl tert-butyl ether	**0.79**	**J**	2.0	0.57	ug/L			03/22/23 01:42	4
Naphthalene	ND		4.0	2.2	ug/L			03/22/23 01:42	4
o-Xylene	ND		2.0	0.72	ug/L			03/22/23 01:42	4
m,p-Xylene	ND		4.0	1.6	ug/L			03/22/23 01:42	4
Propionitrile	ND		20	12	ug/L			03/22/23 01:42	4
Styrene	ND		2.0	1.1	ug/L			03/22/23 01:42	4
trans-1,2-Dichloroethene	ND		2.0	0.88	ug/L			03/22/23 01:42	4
trans-1,3-Dichloropropene	ND		2.0	0.85	ug/L			03/22/23 01:42	4
trans-1,4-Dichloro-2-butene	ND		8.0	6.2	ug/L			03/22/23 01:42	4
t-Butanol	**660**		20	13	ug/L			03/22/23 01:42	4
Tetrachloroethene	ND		2.0	0.62	ug/L			03/22/23 01:42	4
Tetrahydrofuran	**12**		8.0	5.2	ug/L			03/22/23 01:42	4
Toluene	ND		2.0	0.57	ug/L			03/22/23 01:42	4
Trichloroethene	ND		2.0	0.61	ug/L			03/22/23 01:42	4
Trichlorofluoromethane	ND		2.0	1.0	ug/L			03/22/23 01:42	4
Vinyl acetate	ND		20	13	ug/L			03/22/23 01:42	4
Vinyl chloride	ND		2.0	0.90	ug/L			03/22/23 01:42	4

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Silane, methoxytrimethyl-	*1800*	*T J N*	*ug/L*		*4.14*	*1825-61-2*		*03/22/23 01:42*	*4*
Silanol, trimethyl-	*31*	*T J N*	*ug/L*		*5.08*	*1066-40-6*		*03/22/23 01:42*	*4*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 132*		*03/22/23 01:42*	*4*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*03/22/23 01:42*	*4*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*03/22/23 01:42*	*4*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/22/23 01:42*	*4*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**140**		3.9	2.7	ug/L		03/27/23 08:15	03/28/23 12:04	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*	**3*	*21 - 120*	*03/27/23 08:15*	*03/28/23 12:04*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*88*	**3*	*58 - 135*	*03/27/23 08:15*	*03/28/23 12:04*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2700**		100	36	mg/L			03/27/23 09:50	100

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**210**		2.0	0.58	mg/L		03/23/23 08:41	03/28/23 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**290**		3.8	1.6	mg/L		03/29/23 12:02	03/29/23 14:14	50
Chemical Oxygen Demand (EPA 410.4)	**1000**		100	14	mg/L		03/22/23 14:52	03/22/23 21:42	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: LY-7
Date Collected: 03/20/23 09:11
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-8
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	2500		5.0	2.2	mg/L			03/24/23 23:11	1
Total Dissolved Solids (SM 2540C)	9400		100	87	mg/L			03/22/23 18:47	1
Total Organic Carbon (SM 5310D)	320		50	26	mg/L			04/04/23 01:54	100

Client Sample ID: Combined Subdrains

Date Collected: 03/20/23 11:50
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-9

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/22/23 16:22	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/22/23 16:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/22/23 16:22	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/22/23 16:22	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/22/23 16:22	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/22/23 16:22	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/22/23 16:22	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/22/23 16:22	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/22/23 16:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/22/23 16:22	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/22/23 16:22	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/22/23 16:22	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/22/23 16:22	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/22/23 16:22	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/22/23 16:22	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/22/23 16:22	1
1,4-Dichlorobenzene	**2.7**		0.50	0.11	ug/L			03/22/23 16:22	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/22/23 16:22	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/22/23 16:22	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/22/23 16:22	1
2-Hexanone	ND		6.0	2.0	ug/L			03/22/23 16:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/22/23 16:22	1
Acetone	ND		8.0	3.6	ug/L			03/22/23 16:22	1
Acrolein	ND	*-	4.0	3.6	ug/L			03/22/23 16:22	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/22/23 16:22	1
Allyl chloride	ND		2.0	0.47	ug/L			03/22/23 16:22	1
Benzene	**0.61**		0.50	0.14	ug/L			03/22/23 16:22	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/22/23 16:22	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/22/23 16:22	1
Bromoform	ND		0.50	0.28	ug/L			03/22/23 16:22	1
Bromomethane	ND		2.0	1.9	ug/L			03/22/23 16:22	1
cis-1,2-Dichloroethene	**0.46**	**J**	0.50	0.16	ug/L			03/22/23 16:22	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/22/23 16:22	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/22/23 16:22	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/22/23 16:22	1
Chlorobenzene	**0.14**	**J**	0.50	0.12	ug/L			03/22/23 16:22	1
Chloroethane	ND		0.50	0.38	ug/L			03/22/23 16:22	1
Chloroform	ND		0.50	0.17	ug/L			03/22/23 16:22	1
Chloromethane	ND		1.0	0.65	ug/L			03/22/23 16:22	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/22/23 16:22	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/22/23 16:22	1
Dibromomethane	ND		0.50	0.16	ug/L			03/22/23 16:22	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/22/23 16:22	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/22/23 16:22	1
Ethylbenzene	**0.25**	**J**	0.50	0.16	ug/L			03/22/23 16:22	1
Iodomethane	ND		25	8.7	ug/L			03/22/23 16:22	1
Isobutyl alcohol	ND		50	35	ug/L			03/22/23 16:22	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/22/23 16:22	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/22/23 16:22	1

Client Sample ID: Combined Subdrains

Date Collected: 03/20/23 11:50
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-9

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/22/23 16:22	1
Methyl tert-butyl ether	**0.24**	**J**	0.50	0.14	ug/L			03/22/23 16:22	1
Naphthalene	ND		1.0	0.55	ug/L			03/22/23 16:22	1
o-Xylene	ND		0.50	0.18	ug/L			03/22/23 16:22	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/22/23 16:22	1
Propionitrile	ND		5.0	3.1	ug/L			03/22/23 16:22	1
Styrene	ND		0.50	0.27	ug/L			03/22/23 16:22	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/22/23 16:22	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/22/23 16:22	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/22/23 16:22	1
t-Butanol	ND		5.0	3.1	ug/L			03/22/23 16:22	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/22/23 16:22	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/22/23 16:22	1
Toluene	ND		0.50	0.14	ug/L			03/22/23 16:22	1
Trichloroethene	ND		0.50	0.15	ug/L			03/22/23 16:22	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/22/23 16:22	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/22/23 16:22	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/22/23 16:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Chloroethanol	*560*	*T J N*	*ug/L*		*2.36*	*107-07-3*		*03/22/23 16:22*	*1*
1,3,2-Dioxaphosphorinane, 2,5,5-triphenyl-, 2-oxide	*89*	*T J N*	*ug/L*		*3.30*	*34284-46-3*		*03/22/23 16:22*	*1*
Benzene, 1-chloro-4-(trifluoromethyl)-	*1.2*	*T J N*	*ug/L*		*11.48*	*98-56-6*		*03/22/23 16:22*	*1*
D-Limonene	*2.3*	*T J N*	*ug/L*		*14.18*	*5989-27-5*		*03/22/23 16:22*	*1*
4-Isopropyltoluene	*3.1*		*ug/L*		*14.23*	*99-87-6*		*03/22/23 16:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 132*		*03/22/23 16:22*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 120*		*03/22/23 16:22*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*03/22/23 16:22*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/22/23 16:22*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.38	0.26	ug/L		03/27/23 08:15	03/27/23 21:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*25*		*21 - 120*	*03/27/23 08:15*	*03/27/23 21:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*58 - 135*	*03/27/23 08:15*	*03/27/23 21:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15**		10	3.6	mg/L			03/27/23 10:07	10

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**15**		2.0	0.58	mg/L		03/22/23 09:15	03/27/23 20:13	1

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: Combined Subdrains

Date Collected: 03/20/23 11:50
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-9

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	1.3		0.075	0.032	mg/L		03/29/23 12:02	03/29/23 14:12	1
Chemical Oxygen Demand (EPA 410.4)	57	J	100	14	mg/L		03/22/23 14:52	03/22/23 21:42	1
Alkalinity, Total (As CaCO3) (SM 2320B)	210		5.0	2.2	mg/L			03/24/23 23:17	1
Total Dissolved Solids (SM 2540C)	3300		33	29	mg/L			03/22/23 18:47	1
Total Organic Carbon (SM 5310D)	14		0.50	0.26	mg/L			04/04/23 17:51	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: Field Blank
Date Collected: 03/20/23 00:00
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-10
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/21/23 22:23	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/21/23 22:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/21/23 22:23	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/21/23 22:23	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/21/23 22:23	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/21/23 22:23	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/21/23 22:23	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/21/23 22:23	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/21/23 22:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/21/23 22:23	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/21/23 22:23	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/21/23 22:23	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/21/23 22:23	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/21/23 22:23	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/21/23 22:23	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/21/23 22:23	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/21/23 22:23	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/21/23 22:23	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/21/23 22:23	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/21/23 22:23	1
2-Hexanone	ND		6.0	2.0	ug/L			03/21/23 22:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/21/23 22:23	1
Acetone	ND		8.0	3.6	ug/L			03/21/23 22:23	1
Acrolein	ND	*-	4.0	3.6	ug/L			03/21/23 22:23	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/21/23 22:23	1
Allyl chloride	ND		2.0	0.47	ug/L			03/21/23 22:23	1
Benzene	ND		0.50	0.14	ug/L			03/21/23 22:23	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/21/23 22:23	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/21/23 22:23	1
Bromoform	ND		0.50	0.28	ug/L			03/21/23 22:23	1
Bromomethane	ND		2.0	1.9	ug/L			03/21/23 22:23	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/21/23 22:23	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/21/23 22:23	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/21/23 22:23	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/21/23 22:23	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/21/23 22:23	1
Chloroethane	ND		0.50	0.38	ug/L			03/21/23 22:23	1
Chloroform	ND		0.50	0.17	ug/L			03/21/23 22:23	1
Chloromethane	ND		1.0	0.65	ug/L			03/21/23 22:23	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/21/23 22:23	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/21/23 22:23	1
Dibromomethane	ND		0.50	0.16	ug/L			03/21/23 22:23	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/21/23 22:23	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/21/23 22:23	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/21/23 22:23	1
Iodomethane	ND		25	8.7	ug/L			03/21/23 22:23	1
Isobutyl alcohol	ND		50	35	ug/L			03/21/23 22:23	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/21/23 22:23	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/21/23 22:23	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: Field Blank
Date Collected: 03/20/23 00:00
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-10
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/21/23 22:23	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/21/23 22:23	1
Naphthalene	ND		1.0	0.55	ug/L			03/21/23 22:23	1
o-Xylene	ND		0.50	0.18	ug/L			03/21/23 22:23	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/21/23 22:23	1
Propionitrile	ND		5.0	3.1	ug/L			03/21/23 22:23	1
Styrene	ND		0.50	0.27	ug/L			03/21/23 22:23	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/21/23 22:23	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/21/23 22:23	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/21/23 22:23	1
t-Butanol	ND		5.0	3.1	ug/L			03/21/23 22:23	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/21/23 22:23	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/21/23 22:23	1
Toluene	ND		0.50	0.14	ug/L			03/21/23 22:23	1
Trichloroethene	ND		0.50	0.15	ug/L			03/21/23 22:23	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/21/23 22:23	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/21/23 22:23	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/21/23 22:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/21/23 22:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 132*		*03/21/23 22:23*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*03/21/23 22:23*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*03/21/23 22:23*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/21/23 22:23*	*1*

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: Trip Blank
Date Collected: 03/20/23 00:00
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-11
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/21/23 22:48	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/21/23 22:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/21/23 22:48	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/21/23 22:48	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/21/23 22:48	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/21/23 22:48	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/21/23 22:48	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/21/23 22:48	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/21/23 22:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/21/23 22:48	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/21/23 22:48	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/21/23 22:48	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/21/23 22:48	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/21/23 22:48	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/21/23 22:48	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/21/23 22:48	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/21/23 22:48	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/21/23 22:48	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/21/23 22:48	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/21/23 22:48	1
2-Hexanone	ND		6.0	2.0	ug/L			03/21/23 22:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/21/23 22:48	1
Acetone	ND		8.0	3.6	ug/L			03/21/23 22:48	1
Acrolein	ND	*-	4.0	3.6	ug/L			03/21/23 22:48	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/21/23 22:48	1
Allyl chloride	ND		2.0	0.47	ug/L			03/21/23 22:48	1
Benzene	ND		0.50	0.14	ug/L			03/21/23 22:48	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/21/23 22:48	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/21/23 22:48	1
Bromoform	ND		0.50	0.28	ug/L			03/21/23 22:48	1
Bromomethane	ND		2.0	1.9	ug/L			03/21/23 22:48	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/21/23 22:48	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/21/23 22:48	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/21/23 22:48	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/21/23 22:48	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/21/23 22:48	1
Chloroethane	ND		0.50	0.38	ug/L			03/21/23 22:48	1
Chloroform	ND		0.50	0.17	ug/L			03/21/23 22:48	1
Chloromethane	ND		1.0	0.65	ug/L			03/21/23 22:48	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/21/23 22:48	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/21/23 22:48	1
Dibromomethane	ND		0.50	0.16	ug/L			03/21/23 22:48	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/21/23 22:48	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/21/23 22:48	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/21/23 22:48	1
Iodomethane	ND		25	8.7	ug/L			03/21/23 22:48	1
Isobutyl alcohol	ND		50	35	ug/L			03/21/23 22:48	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/21/23 22:48	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/21/23 22:48	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: Trip Blank
Date Collected: 03/20/23 00:00
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-11
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/21/23 22:48	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/21/23 22:48	1
Naphthalene	ND		1.0	0.55	ug/L			03/21/23 22:48	1
o-Xylene	ND		0.50	0.18	ug/L			03/21/23 22:48	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/21/23 22:48	1
Propionitrile	ND		5.0	3.1	ug/L			03/21/23 22:48	1
Styrene	ND		0.50	0.27	ug/L			03/21/23 22:48	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/21/23 22:48	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/21/23 22:48	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/21/23 22:48	1
t-Butanol	ND		5.0	3.1	ug/L			03/21/23 22:48	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/21/23 22:48	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/21/23 22:48	1
Toluene	ND		0.50	0.14	ug/L			03/21/23 22:48	1
Trichloroethene	ND		0.50	0.15	ug/L			03/21/23 22:48	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/21/23 22:48	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/21/23 22:48	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/21/23 22:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/21/23 22:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 132*		*03/21/23 22:48*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*03/21/23 22:48*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*03/21/23 22:48*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/21/23 22:48*	*1*

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-132)	(76-120)	(80-120)	(80-120)
570-131897-1	CM-9R3	108	89	105	99
570-131897-2	CM-10R	109	89	105	100
570-131897-3	CM-11R	111	90	106	101
570-131897-4	MW-6	107	90	103	99
570-131897-5	MW-14	113	89	107	100
570-131897-6	PZ-2	112	88	107	98
570-131897-7	Duplicate	109	90	108	100
570-131897-8	LY-7	109	90	105	96
570-131897-9	Combined Subdrains	101	95	104	101
570-131897-10	Field Blank	106	90	104	98
570-131897-11	Trip Blank	105	90	104	100
LCS 570-313571/3	Lab Control Sample	99	96	100	99
LCS 570-313670/4	Lab Control Sample	105	100	99	103
LCSD 570-313571/4	Lab Control Sample Dup	101	97	100	100
LCSD 570-313670/5	Lab Control Sample Dup	96	100	99	97
MB 570-313571/6	Method Blank	104	90	103	99
MB 570-313670/10	Method Blank	101	92	102	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		NBZ
Lab Sample ID	Client Sample ID	(58-135)
570-131897-1	CM-9R3	72
570-131897-2	CM-10R	66
570-131897-3	CM-11R	91
570-131897-4	MW-6	68
570-131897-5	MW-14	70
570-131897-6	PZ-2	73
570-131897-7	Duplicate	76
570-131897-8 - DL	LY-7	88 *3
570-131897-9	Combined Subdrains	84
570-132380-B-3-A MS	Matrix Spike	73
570-132380-B-3-B MSD	Matrix Spike Duplicate	82
LCS 570-313778/2-A	Lab Control Sample	62
LCS 570-314427/2-A	Lab Control Sample	72
LCS 570-314885/2-A	Lab Control Sample	73
LCSD 570-313778/3-A	Lab Control Sample Dup	95
LCSD 570-314427/3-A	Lab Control Sample Dup	69
LCSD 570-314885/3-A	Lab Control Sample Dup	64
MB 570-313778/1-A	Method Blank	85
MB 570-314427/1-A	Method Blank	64
MB 570-314885/1-A	Method Blank	77

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

Isotope Dilution Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE
Lab Sample ID	Client Sample ID	(21-120)
570-131897-1	CM-9R3	35
570-131897-2	CM-10R	31
570-131897-3	CM-11R	31
570-131897-4	MW-6	34
570-131897-5	MW-14	35
570-131897-6	PZ-2	24
570-131897-7	Duplicate	26
570-131897-8 - DL	LY-7	30 *3
570-131897-9	Combined Subdrains	25
570-132380-B-3-A MS	Matrix Spike	32
570-132380-B-3-B MSD	Matrix Spike Duplicate	28
LCS 570-313778/2-A	Lab Control Sample	37
LCS 570-314427/2-A	Lab Control Sample	34
LCS 570-314885/2-A	Lab Control Sample	30
LCSD 570-313778/3-A	Lab Control Sample Dup	34
LCSD 570-314427/3-A	Lab Control Sample Dup	33
LCSD 570-314885/3-A	Lab Control Sample Dup	26
MB 570-313778/1-A	Method Blank	38
MB 570-314427/1-A	Method Blank	36
MB 570-314885/1-A	Method Blank	35

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-313571/6
Matrix: Water
Analysis Batch: 313571

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/21/23 21:58	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/21/23 21:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/21/23 21:58	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/21/23 21:58	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/21/23 21:58	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/21/23 21:58	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/21/23 21:58	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/21/23 21:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/21/23 21:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/21/23 21:58	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/21/23 21:58	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/21/23 21:58	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/21/23 21:58	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/21/23 21:58	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/21/23 21:58	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/21/23 21:58	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/21/23 21:58	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/21/23 21:58	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/21/23 21:58	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/21/23 21:58	1
2-Hexanone	ND		6.0	2.0	ug/L			03/21/23 21:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/21/23 21:58	1
Acetone	ND		8.0	3.6	ug/L			03/21/23 21:58	1
Acrolein	ND		4.0	3.6	ug/L			03/21/23 21:58	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/21/23 21:58	1
Allyl chloride	ND		2.0	0.47	ug/L			03/21/23 21:58	1
Benzene	ND		0.50	0.14	ug/L			03/21/23 21:58	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/21/23 21:58	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/21/23 21:58	1
Bromoform	ND		0.50	0.28	ug/L			03/21/23 21:58	1
Bromomethane	ND		2.0	1.9	ug/L			03/21/23 21:58	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/21/23 21:58	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/21/23 21:58	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/21/23 21:58	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/21/23 21:58	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/21/23 21:58	1
Chloroethane	ND		0.50	0.38	ug/L			03/21/23 21:58	1
Chloroform	ND		0.50	0.17	ug/L			03/21/23 21:58	1
Chloromethane	ND		1.0	0.65	ug/L			03/21/23 21:58	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/21/23 21:58	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/21/23 21:58	1
Dibromomethane	ND		0.50	0.16	ug/L			03/21/23 21:58	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/21/23 21:58	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/21/23 21:58	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/21/23 21:58	1
Iodomethane	ND		25	8.7	ug/L			03/21/23 21:58	1
Isobutyl alcohol	ND		50	35	ug/L			03/21/23 21:58	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/21/23 21:58	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-313571/6
Matrix: Water
Analysis Batch: 313571

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	ND		2.0	1.9	ug/L			03/21/23 21:58	1
Methylene Chloride	ND		1.0	0.40	ug/L			03/21/23 21:58	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/21/23 21:58	1
Naphthalene	ND		1.0	0.55	ug/L			03/21/23 21:58	1
o-Xylene	ND		0.50	0.18	ug/L			03/21/23 21:58	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/21/23 21:58	1
Propionitrile	ND		5.0	3.1	ug/L			03/21/23 21:58	1
Styrene	ND		0.50	0.27	ug/L			03/21/23 21:58	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/21/23 21:58	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/21/23 21:58	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/21/23 21:58	1
t-Butanol	ND		5.0	3.1	ug/L			03/21/23 21:58	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/21/23 21:58	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/21/23 21:58	1
Toluene	ND		0.50	0.14	ug/L			03/21/23 21:58	1
Trichloroethene	ND		0.50	0.15	ug/L			03/21/23 21:58	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/21/23 21:58	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/21/23 21:58	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/21/23 21:58	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/21/23 21:58*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 132*		*03/21/23 21:58*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*03/21/23 21:58*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/21/23 21:58*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/21/23 21:58*	*1*

Lab Sample ID: LCS 570-313571/3
Matrix: Water
Analysis Batch: 313571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	9.28		ug/L		93	80 - 125
1,1,1-Trichloroethane	10.0	9.01		ug/L		90	75 - 121
1,1,2,2-Tetrachloroethane	10.0	10.0		ug/L		100	80 - 120
1,1,2-Trichloroethane	10.0	9.24		ug/L		92	80 - 121
1,1-Dichloroethane	10.0	9.23		ug/L		92	80 - 120
1,1-Dichloroethene	10.0	8.93		ug/L		89	80 - 126
1,1-Dichloropropene	10.0	9.07		ug/L		91	72 - 122
1,2,3-Trichloropropane	10.0	9.22		ug/L		92	75 - 127
1,2,4-Trichlorobenzene	10.0	8.97		ug/L		90	80 - 124
1,2-Dibromo-3-Chloropropane	10.0	8.53		ug/L		85	63 - 123
1,2-Dibromoethane (EDB)	10.0	9.01		ug/L		90	80 - 125
1,2-Dichlorobenzene	10.0	9.77		ug/L		98	80 - 120
1,2-Dichloroethane	10.0	9.38		ug/L		94	76 - 130
1,2-Dichloropropane	10.0	9.27		ug/L		93	74 - 124

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-313571/3
Matrix: Water
Analysis Batch: 313571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	10.0	9.57		ug/L		96	80 - 120
1,3-Dichloropropane	10.0	9.39		ug/L		94	80 - 121
1,4-Dichlorobenzene	10.0	9.26		ug/L		93	80 - 120
2,2-Dichloropropane	10.0	10.1		ug/L		101	79 - 131
2-Butanone (MEK)	10.0	9.40		ug/L		94	48 - 145
2-Chloroethyl vinyl ether	10.0	6.85		ug/L		68	20 - 120
2-Hexanone	10.0	8.33		ug/L		83	50 - 149
4-Methyl-2-pentanone (MIBK)	10.0	8.56		ug/L		86	63 - 120
Acetone	10.0	8.53		ug/L		85	45 - 139
Acrolein	20.0	12.8	*-	ug/L		64	71 - 180
Acrylonitrile	10.0	9.05		ug/L		91	57 - 142
Allyl chloride	10.0	9.01		ug/L		90	62 - 139
Benzene	10.0	9.03		ug/L		90	80 - 120
Bromochloromethane	10.0	10.0		ug/L		100	80 - 120
Bromodichloromethane	10.0	9.44		ug/L		94	73 - 131
Bromoform	10.0	9.61		ug/L		96	76 - 124
Bromomethane	10.0	8.67		ug/L		87	26 - 180
cis-1,2-Dichloroethene	10.0	9.10		ug/L		91	80 - 120
cis-1,3-Dichloropropene	10.0	8.54		ug/L		85	76 - 123
Carbon disulfide	10.0	8.42		ug/L		84	75 - 123
Carbon tetrachloride	10.0	8.74		ug/L		87	61 - 139
Chlorobenzene	10.0	9.00		ug/L		90	80 - 120
Chloroethane	10.0	9.42		ug/L		94	54 - 150
Chloroform	10.0	8.96		ug/L		90	80 - 120
Chloromethane	10.0	9.23		ug/L		92	28 - 151
2-Chloro-1,3-butadiene	10.0	9.30		ug/L		93	66 - 132
Dibromochloromethane	10.0	9.11		ug/L		91	74 - 136
Dibromomethane	10.0	10.0		ug/L		100	80 - 122
Dichlorodifluoromethane	10.0	6.45		ug/L		65	27 - 154
Ethyl methacrylate	10.0	8.23		ug/L		82	67 - 120
Ethylbenzene	10.0	9.16		ug/L		92	80 - 126
Iodomethane	50.0	48.0		ug/L		96	54 - 144
Isobutyl alcohol	50.0	42.1	J	ug/L		84	20 - 180
Methylacrylonitrile	10.0	8.96		ug/L		90	42 - 150
Methyl methacrylate	10.0	8.67		ug/L		87	66 - 126
Methylene Chloride	10.0	8.94		ug/L		89	80 - 120
Methyl tert-butyl ether	10.0	9.16		ug/L		92	69 - 128
Naphthalene	10.0	8.74		ug/L		87	70 - 130
o-Xylene	10.0	9.10		ug/L		91	80 - 124
m,p-Xylene	20.0	18.9		ug/L		95	80 - 123
Propionitrile	10.0	9.45		ug/L		94	58 - 145
Styrene	10.0	8.72		ug/L		87	80 - 121
trans-1,2-Dichloroethene	10.0	8.90		ug/L		89	79 - 120
trans-1,3-Dichloropropene	10.0	9.30		ug/L		93	80 - 126
trans-1,4-Dichloro-2-butene	10.0	9.25		ug/L		93	54 - 146
t-Butanol	50.0	51.2		ug/L		102	68 - 133
Tetrachloroethene	10.0	9.10		ug/L		91	80 - 125
Tetrahydrofuran	10.0	9.12		ug/L		91	32 - 152
Toluene	10.0	9.09		ug/L		91	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-313571/3
Matrix: Water
Analysis Batch: 313571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			10.0	8.75		ug/L		88	77 - 124		
Trichlorofluoromethane			10.0	7.75		ug/L		78	41 - 163		
Vinyl acetate			10.0	9.62		ug/L		96	61 - 126		
Vinyl chloride			10.0	8.05		ug/L		80	50 - 160		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 132*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 570-313571/4
Matrix: Water
Analysis Batch: 313571

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			10.0	9.54		ug/L		95	80 - 125	3	20
1,1,1-Trichloroethane			10.0	9.86		ug/L		99	75 - 121	9	20
1,1,2,2-Tetrachloroethane			10.0	10.0		ug/L		100	80 - 120	0	20
1,1,2-Trichloroethane			10.0	9.32		ug/L		93	80 - 121	1	20
1,1-Dichloroethane			10.0	9.94		ug/L		99	80 - 120	7	20
1,1-Dichloroethene			10.0	8.99		ug/L		90	80 - 126	1	21
1,1-Dichloropropene			10.0	9.93		ug/L		99	72 - 122	9	20
1,2,3-Trichloropropane			10.0	9.21		ug/L		92	75 - 127	0	20
1,2,4-Trichlorobenzene			10.0	9.42		ug/L		94	80 - 124	5	20
1,2-Dibromo-3-Chloropropane			10.0	8.59		ug/L		86	63 - 123	1	20
1,2-Dibromoethane (EDB)			10.0	9.44		ug/L		94	80 - 125	5	20
1,2-Dichlorobenzene			10.0	9.88		ug/L		99	80 - 120	1	20
1,2-Dichloroethane			10.0	9.60		ug/L		96	76 - 130	2	20
1,2-Dichloropropane			10.0	9.77		ug/L		98	74 - 124	5	20
1,3-Dichlorobenzene			10.0	9.87		ug/L		99	80 - 120	3	20
1,3-Dichloropropane			10.0	9.42		ug/L		94	80 - 121	0	20
1,4-Dichlorobenzene			10.0	9.71		ug/L		97	80 - 120	5	20
2,2-Dichloropropane			10.0	10.8		ug/L		108	79 - 131	8	20
2-Butanone (MEK)			10.0	9.25		ug/L		93	48 - 145	2	30
2-Chloroethyl vinyl ether			10.0	8.54		ug/L		85	20 - 120	22	30
2-Hexanone			10.0	8.27		ug/L		83	50 - 149	1	29
4-Methyl-2-pentanone (MIBK)			10.0	8.64		ug/L		86	63 - 120	1	20
Acetone			10.0	8.85		ug/L		89	45 - 139	4	30
Acrolein			20.0	15.7		ug/L		78	71 - 180	20	26
Acrylonitrile			10.0	9.32		ug/L		93	57 - 142	3	20
Allyl chloride			10.0	9.21		ug/L		92	62 - 139	2	30
Benzene			10.0	9.80		ug/L		98	80 - 120	8	20
Bromochloromethane			10.0	10.5		ug/L		105	80 - 120	4	20
Bromodichloromethane			10.0	10.1		ug/L		101	73 - 131	7	20
Bromoform			10.0	9.24		ug/L		92	76 - 124	4	20
Bromomethane			10.0	9.41		ug/L		94	26 - 180	8	20
cis-1,2-Dichloroethene			10.0	9.80		ug/L		98	80 - 120	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-313571/4
Matrix: Water
Analysis Batch: 313571

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	10.0	9.17		ug/L		92	76 - 123	7	20
Carbon disulfide	10.0	8.92		ug/L		89	75 - 123	6	20
Carbon tetrachloride	10.0	9.56		ug/L		96	61 - 139	9	20
Chlorobenzene	10.0	9.54		ug/L		95	80 - 120	6	20
Chloroethane	10.0	10.2		ug/L		102	54 - 150	8	25
Chloroform	10.0	9.43		ug/L		94	80 - 120	5	20
Chloromethane	10.0	10.3		ug/L		103	28 - 151	11	20
2-Chloro-1,3-butadiene	10.0	10.1		ug/L		101	66 - 132	8	20
Dibromochloromethane	10.0	9.45		ug/L		94	74 - 136	4	20
Dibromomethane	10.0	10.1		ug/L		101	80 - 122	1	20
Dichlorodifluoromethane	10.0	7.09		ug/L		71	27 - 154	9	21
Ethyl methacrylate	10.0	8.13		ug/L		81	67 - 120	1	20
Ethylbenzene	10.0	9.87		ug/L		99	80 - 126	7	20
Iodomethane	50.0	52.0		ug/L		104	54 - 144	8	20
Isobutyl alcohol	50.0	43.1	J	ug/L		86	20 - 180	2	30
Methylacrylonitrile	10.0	8.90		ug/L		89	42 - 150	1	30
Methyl methacrylate	10.0	8.92		ug/L		89	66 - 126	3	20
Methylene Chloride	10.0	9.34		ug/L		93	80 - 120	4	20
Methyl tert-butyl ether	10.0	9.55		ug/L		96	69 - 128	4	20
Naphthalene	10.0	9.36		ug/L		94	70 - 130	7	20
o-Xylene	10.0	9.72		ug/L		97	80 - 124	7	20
m,p-Xylene	20.0	20.6		ug/L		103	80 - 123	8	20
Propionitrile	10.0	9.23		ug/L		92	58 - 145	2	30
Styrene	10.0	9.14		ug/L		91	80 - 121	5	20
trans-1,2-Dichloroethene	10.0	9.57		ug/L		96	79 - 120	7	20
trans-1,3-Dichloropropene	10.0	9.49		ug/L		95	80 - 126	2	20
trans-1,4-Dichloro-2-butene	10.0	9.64		ug/L		96	54 - 146	4	20
t-Butanol	50.0	47.3		ug/L		95	68 - 133	8	21
Tetrachloroethene	10.0	9.90		ug/L		99	80 - 125	8	20
Tetrahydrofuran	10.0	8.45		ug/L		84	32 - 152	8	30
Toluene	10.0	9.82		ug/L		98	80 - 120	8	20
Trichloroethene	10.0	9.55		ug/L		95	77 - 124	9	20
Trichlorofluoromethane	10.0	8.47		ug/L		85	41 - 163	9	21
Vinyl acetate	10.0	9.69		ug/L		97	61 - 126	1	24
Vinyl chloride	10.0	8.66		ug/L		87	50 - 160	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 132*
4-Bromofluorobenzene (Surr)	*97*		*76 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 570-313670/10
Matrix: Water
Analysis Batch: 313670

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/22/23 12:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-313670/10
Matrix: Water
Analysis Batch: 313670

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/22/23 12:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/22/23 12:24	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/22/23 12:24	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/22/23 12:24	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/22/23 12:24	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/22/23 12:24	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/22/23 12:24	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/22/23 12:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/22/23 12:24	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/22/23 12:24	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/22/23 12:24	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/22/23 12:24	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/22/23 12:24	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/22/23 12:24	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/22/23 12:24	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/22/23 12:24	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/22/23 12:24	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/22/23 12:24	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/22/23 12:24	1
2-Hexanone	ND		6.0	2.0	ug/L			03/22/23 12:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/22/23 12:24	1
Acetone	ND		8.0	3.6	ug/L			03/22/23 12:24	1
Acrolein	ND		4.0	3.6	ug/L			03/22/23 12:24	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/22/23 12:24	1
Allyl chloride	ND		2.0	0.47	ug/L			03/22/23 12:24	1
Benzene	ND		0.50	0.14	ug/L			03/22/23 12:24	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/22/23 12:24	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/22/23 12:24	1
Bromoform	ND		0.50	0.28	ug/L			03/22/23 12:24	1
Bromomethane	ND		2.0	1.9	ug/L			03/22/23 12:24	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/22/23 12:24	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/22/23 12:24	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/22/23 12:24	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/22/23 12:24	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/22/23 12:24	1
Chloroethane	ND		0.50	0.38	ug/L			03/22/23 12:24	1
Chloroform	ND		0.50	0.17	ug/L			03/22/23 12:24	1
Chloromethane	ND		1.0	0.65	ug/L			03/22/23 12:24	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/22/23 12:24	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/22/23 12:24	1
Dibromomethane	ND		0.50	0.16	ug/L			03/22/23 12:24	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/22/23 12:24	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/22/23 12:24	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/22/23 12:24	1
Iodomethane	ND		25	8.7	ug/L			03/22/23 12:24	1
Isobutyl alcohol	ND		50	35	ug/L			03/22/23 12:24	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/22/23 12:24	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/22/23 12:24	1
Methylene Chloride	ND		1.0	0.40	ug/L			03/22/23 12:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-313670/10
Matrix: Water
Analysis Batch: 313670

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/22/23 12:24	1
Naphthalene	ND		1.0	0.55	ug/L			03/22/23 12:24	1
o-Xylene	ND		0.50	0.18	ug/L			03/22/23 12:24	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/22/23 12:24	1
Propionitrile	ND		5.0	3.1	ug/L			03/22/23 12:24	1
Styrene	ND		0.50	0.27	ug/L			03/22/23 12:24	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/22/23 12:24	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/22/23 12:24	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/22/23 12:24	1
t-Butanol	ND		5.0	3.1	ug/L			03/22/23 12:24	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/22/23 12:24	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/22/23 12:24	1
Toluene	ND		0.50	0.14	ug/L			03/22/23 12:24	1
Trichloroethene	ND		0.50	0.15	ug/L			03/22/23 12:24	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/22/23 12:24	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/22/23 12:24	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/22/23 12:24	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/22/23 12:24*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 132*		*03/22/23 12:24*	*1*
4-Bromofluorobenzene (Surr)	*92*		*76 - 120*		*03/22/23 12:24*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*03/22/23 12:24*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/22/23 12:24*	*1*

Lab Sample ID: LCS 570-313670/4
Matrix: Water
Analysis Batch: 313670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	11.0		ug/L		110	80 - 125
1,1,1-Trichloroethane	10.0	10.5		ug/L		105	75 - 121
1,1,2,2-Tetrachloroethane	10.0	10.6		ug/L		106	80 - 120
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	80 - 121
1,1-Dichloroethane	10.0	10.8		ug/L		108	80 - 120
1,1-Dichloroethene	10.0	9.99		ug/L		100	80 - 126
1,1-Dichloropropene	10.0	10.6		ug/L		106	72 - 122
1,2,3-Trichloropropane	10.0	9.68		ug/L		97	75 - 127
1,2,4-Trichlorobenzene	10.0	10.8		ug/L		108	80 - 124
1,2-Dibromo-3-Chloropropane	10.0	9.39		ug/L		94	63 - 123
1,2-Dibromoethane (EDB)	10.0	10.1		ug/L		101	80 - 125
1,2-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
1,2-Dichloroethane	10.0	10.8		ug/L		108	76 - 130
1,2-Dichloropropane	10.0	10.9		ug/L		109	74 - 124
1,3-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,3-Dichloropropane	10.0	10.8		ug/L		108	80 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-313670/4
Matrix: Water
Analysis Batch: 313670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
2,2-Dichloropropane	10.0	10.9		ug/L		109	79 - 131
2-Butanone (MEK)	10.0	7.11		ug/L		71	48 - 145
2-Chloroethyl vinyl ether	10.0	8.49		ug/L		85	20 - 120
2-Hexanone	10.0	8.65		ug/L		87	50 - 149
4-Methyl-2-pentanone (MIBK)	10.0	9.29		ug/L		93	63 - 120
Acetone	10.0	9.93		ug/L		99	45 - 139
Acrolein	20.0	13.6	*-	ug/L		68	71 - 180
Acrylonitrile	10.0	8.55		ug/L		85	57 - 142
Allyl chloride	10.0	10.4		ug/L		104	62 - 139
Benzene	10.0	11.1		ug/L		111	80 - 120
Bromochloromethane	10.0	10.8		ug/L		108	80 - 120
Bromodichloromethane	10.0	10.9		ug/L		109	73 - 131
Bromoform	10.0	10.4		ug/L		104	76 - 124
Bromomethane	10.0	8.84		ug/L		88	26 - 180
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	80 - 120
cis-1,3-Dichloropropene	10.0	10.1		ug/L		101	76 - 123
Carbon disulfide	10.0	10.9		ug/L		109	75 - 123
Carbon tetrachloride	10.0	10.5		ug/L		105	61 - 139
Chlorobenzene	10.0	10.7		ug/L		107	80 - 120
Chloroethane	10.0	10.1		ug/L		101	54 - 150
Chloroform	10.0	10.2		ug/L		102	80 - 120
Chloromethane	10.0	9.76		ug/L		98	28 - 151
2-Chloro-1,3-butadiene	10.0	10.9		ug/L		109	66 - 132
Dibromochloromethane	10.0	10.7		ug/L		107	74 - 136
Dibromomethane	10.0	11.1		ug/L		111	80 - 122
Dichlorodifluoromethane	10.0	9.85		ug/L		99	27 - 154
Ethyl methacrylate	10.0	9.10		ug/L		91	67 - 120
Ethylbenzene	10.0	11.2		ug/L		112	80 - 126
Iodomethane	50.0	49.8		ug/L		100	54 - 144
Isobutyl alcohol	50.0	39.9	J	ug/L		80	20 - 180
Methylacrylonitrile	10.0	5.13		ug/L		51	42 - 150
Methyl methacrylate	10.0	9.51		ug/L		95	66 - 126
Methylene Chloride	10.0	10.1		ug/L		101	80 - 120
Methyl tert-butyl ether	10.0	10.3		ug/L		103	69 - 128
Naphthalene	10.0	9.20		ug/L		92	70 - 130
o-Xylene	10.0	10.9		ug/L		109	80 - 124
m,p-Xylene	20.0	22.8		ug/L		114	80 - 123
Propionitrile	10.0	9.99		ug/L		100	58 - 145
Styrene	10.0	11.1		ug/L		111	80 - 121
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	79 - 120
trans-1,3-Dichloropropene	10.0	9.99		ug/L		100	80 - 126
trans-1,4-Dichloro-2-butene	10.0	9.67		ug/L		97	54 - 146
t-Butanol	50.0	55.2		ug/L		110	68 - 133
Tetrachloroethene	10.0	10.9		ug/L		109	80 - 125
Tetrahydrofuran	10.0	7.58		ug/L		76	32 - 152
Toluene	10.0	11.0		ug/L		110	80 - 120
Trichloroethene	10.0	10.7		ug/L		107	77 - 124
Trichlorofluoromethane	10.0	10.8		ug/L		108	41 - 163

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-313670/4
Matrix: Water
Analysis Batch: 313670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	10.0	9.04		ug/L		90	61 - 126
Vinyl chloride	10.0	10.2		ug/L		102	50 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 132*
4-Bromofluorobenzene (Surr)	*100*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 570-313670/5
Matrix: Water
Analysis Batch: 313670

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.8		ug/L		108	80 - 125	1	20
1,1,1-Trichloroethane	10.0	10.0		ug/L		100	75 - 121	5	20
1,1,2,2-Tetrachloroethane	10.0	10.4		ug/L		104	80 - 120	1	20
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 121	1	20
1,1-Dichloroethane	10.0	10.2		ug/L		102	80 - 120	5	20
1,1-Dichloroethene	10.0	9.52		ug/L		95	80 - 126	5	21
1,1-Dichloropropene	10.0	10.1		ug/L		101	72 - 122	5	20
1,2,3-Trichloropropane	10.0	9.53		ug/L		95	75 - 127	2	20
1,2,4-Trichlorobenzene	10.0	10.7		ug/L		107	80 - 124	1	20
1,2-Dibromo-3-Chloropropane	10.0	9.85		ug/L		98	63 - 123	5	20
1,2-Dibromoethane (EDB)	10.0	9.81		ug/L		98	80 - 125	3	20
1,2-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120	1	20
1,2-Dichloroethane	10.0	10.1		ug/L		101	76 - 130	7	20
1,2-Dichloropropane	10.0	9.99		ug/L		100	74 - 124	8	20
1,3-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120	2	20
1,3-Dichloropropane	10.0	10.7		ug/L		107	80 - 121	2	20
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	80 - 120	2	20
2,2-Dichloropropane	10.0	10.4		ug/L		104	79 - 131	4	20
2-Butanone (MEK)	10.0	5.71		ug/L		57	48 - 145	22	30
2-Chloroethyl vinyl ether	10.0	8.25		ug/L		82	20 - 120	3	30
2-Hexanone	10.0	9.43		ug/L		94	50 - 149	9	29
4-Methyl-2-pentanone (MIBK)	10.0	9.48		ug/L		95	63 - 120	2	20
Acetone	10.0	8.91		ug/L		89	45 - 139	11	30
Acrolein	20.0	16.2		ug/L		81	71 - 180	17	26
Acrylonitrile	10.0	8.72		ug/L		87	57 - 142	2	20
Allyl chloride	10.0	9.50		ug/L		95	62 - 139	9	30
Benzene	10.0	10.2		ug/L		102	80 - 120	8	20
Bromochloromethane	10.0	10.5		ug/L		105	80 - 120	3	20
Bromodichloromethane	10.0	10.3		ug/L		103	73 - 131	5	20
Bromoform	10.0	10.5		ug/L		105	76 - 124	1	20
Bromomethane	10.0	8.44		ug/L		84	26 - 180	5	20
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 120	6	20
cis-1,3-Dichloropropene	10.0	9.60		ug/L		96	76 - 123	5	20
Carbon disulfide	10.0	10.3		ug/L		103	75 - 123	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-313670/5
Matrix: Water
Analysis Batch: 313670

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon tetrachloride			10.0	10.1		ug/L		101	61 - 139	5	20
Chlorobenzene			10.0	10.4		ug/L		104	80 - 120	3	20
Chloroethane			10.0	9.45		ug/L		95	54 - 150	7	25
Chloroform			10.0	9.83		ug/L		98	80 - 120	4	20
Chloromethane			10.0	9.43		ug/L		94	28 - 151	3	20
2-Chloro-1,3-butadiene			10.0	10.4		ug/L		104	66 - 132	4	20
Dibromochloromethane			10.0	10.5		ug/L		105	74 - 136	2	20
Dibromomethane			10.0	10.3		ug/L		103	80 - 122	7	20
Dichlorodifluoromethane			10.0	9.20		ug/L		92	27 - 154	7	21
Ethyl methacrylate			10.0	9.41		ug/L		94	67 - 120	3	20
Ethylbenzene			10.0	10.8		ug/L		108	80 - 126	4	20
Iodomethane			50.0	49.1		ug/L		98	54 - 144	1	20
Isobutyl alcohol			50.0	41.6	J	ug/L		83	20 - 180	4	30
Methylacrylonitrile			10.0	5.44		ug/L		54	42 - 150	6	30
Methyl methacrylate			10.0	8.55		ug/L		86	66 - 126	11	20
Methylene Chloride			10.0	9.77		ug/L		98	80 - 120	3	20
Methyl tert-butyl ether			10.0	10.0		ug/L		100	69 - 128	3	20
Naphthalene			10.0	9.20		ug/L		92	70 - 130	0	20
o-Xylene			10.0	10.6		ug/L		106	80 - 124	3	20
m,p-Xylene			20.0	21.4		ug/L		107	80 - 123	6	20
Propionitrile			10.0	10.2		ug/L		102	58 - 145	2	30
Styrene			10.0	10.7		ug/L		107	80 - 121	3	20
trans-1,2-Dichloroethene			10.0	10.3		ug/L		103	79 - 120	2	20
trans-1,3-Dichloropropene			10.0	9.47		ug/L		95	80 - 126	5	20
trans-1,4-Dichloro-2-butene			10.0	9.48		ug/L		95	54 - 146	2	20
t-Butanol			50.0	50.2		ug/L		100	68 - 133	10	21
Tetrachloroethene			10.0	10.6		ug/L		106	80 - 125	3	20
Tetrahydrofuran			10.0	8.14		ug/L		81	32 - 152	7	30
Toluene			10.0	10.3		ug/L		103	80 - 120	7	20
Trichloroethene			10.0	9.98		ug/L		100	77 - 124	7	20
Trichlorofluoromethane			10.0	10.2		ug/L		102	41 - 163	6	21
Vinyl acetate			10.0	9.40		ug/L		94	61 - 126	4	24
Vinyl chloride			10.0	9.54		ug/L		95	50 - 160	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 132*
4-Bromofluorobenzene (Surr)	*100*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-313778/1-A
Matrix: Water
Analysis Batch: 314304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313778

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		03/23/23 07:00	03/24/23 02:46	1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	38		21 - 120	03/23/23 07:00	03/24/23 02:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	85		58 - 135	03/23/23 07:00	03/24/23 02:46	1

Lab Sample ID: LCS 570-313778/2-A
Matrix: Water
Analysis Batch: 314304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313778

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			20.0	17.3		ug/L		86	63 - 144		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8	37		21 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	62		58 - 135

Lab Sample ID: LCSD 570-313778/3-A
Matrix: Water
Analysis Batch: 314304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 313778

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			20.0	19.1		ug/L		96	63 - 144	10	20

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	34		21 - 120

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	95		58 - 135

Lab Sample ID: MB 570-314427/1-A
Matrix: Water
Analysis Batch: 314627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		03/24/23 09:02	03/24/23 17:56	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	36		21 - 120	03/24/23 09:02	03/24/23 17:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	64		58 - 135	03/24/23 09:02	03/24/23 17:56	1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: LCS 570-314427/2-A
Matrix: Water
Analysis Batch: 314627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314427

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			20.0	19.1		ug/L		95	63 - 144		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*34*		*21 - 120*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*72*		*58 - 135*

Lab Sample ID: LCSD 570-314427/3-A
Matrix: Water
Analysis Batch: 314627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 314427

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			20.0	18.6		ug/L		93	63 - 144	2	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*33*		*21 - 120*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*69*		*58 - 135*

Lab Sample ID: MB 570-314885/1-A
Matrix: Water
Analysis Batch: 315064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		03/27/23 08:15	03/27/23 19:35	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*21 - 120*	*03/27/23 08:15*	*03/27/23 19:35*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*77*		*58 - 135*	*03/27/23 08:15*	*03/27/23 19:35*	*1*

Lab Sample ID: LCS 570-314885/2-A
Matrix: Water
Analysis Batch: 315064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314885

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			20.0	19.9		ug/L		99	63 - 144		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*30*		*21 - 120*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*73*		*58 - 135*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: LCSD 570-314885/3-A
Matrix: Water
Analysis Batch: 315064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 314885

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			20.0	23.2		ug/L		116	63 - 144	15	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*26*		*21 - 120*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*64*		*58 - 135*

Lab Sample ID: 570-132380-B-3-A MS
Matrix: Water
Analysis Batch: 315064

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 314885

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	ND		17.7	16.7		ug/L		94	48 - 164		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*32*		*21 - 120*

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*73*		*58 - 135*

Lab Sample ID: 570-132380-B-3-B MSD
Matrix: Water
Analysis Batch: 315064

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 314885

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	ND		17.7	18.5		ug/L		105	48 - 164	10	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*28*		*21 - 120*

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*82*		*58 - 135*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-314843/5
Matrix: Water
Analysis Batch: 314843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.36	mg/L			03/27/23 04:25	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 570-314843/6
Matrix: Water
Analysis Batch: 314843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	47.2		mg/L		94	90 - 110

Lab Sample ID: LCSD 570-314843/7
Matrix: Water
Analysis Batch: 314843

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	50.0	47.2		mg/L		94	90 - 110	0	15

Lab Sample ID: 570-131897-1 MS
Matrix: Water
Analysis Batch: 314843

Client Sample ID: CM-9R3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	16	F1	50.0	55.0	F1	mg/L		78	80 - 120

Lab Sample ID: 570-131897-1 MSD
Matrix: Water
Analysis Batch: 314843

Client Sample ID: CM-9R3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16	F1	50.0	55.0	F1	mg/L		78	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: 570-131851-K-1-B MS
Matrix: Water
Analysis Batch: 315203

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 313709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	2.4		5.00	7.49		mg/L		102	83 - 131

Lab Sample ID: 570-131851-K-1-C MSD
Matrix: Water
Analysis Batch: 315203

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 313709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	2.4		5.00	7.49		mg/L		102	83 - 131	0	7

Lab Sample ID: MB 570-313709/1-A
Matrix: Water
Analysis Batch: 315203

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 313709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		2.0	0.58	mg/L		03/22/23 09:15	03/27/23 19:23	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-313709/2-A
Matrix: Water
Analysis Batch: 315203

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 313709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	5.00	4.97		mg/L		99	80 - 120

Lab Sample ID: LCSD 570-313709/3-A
Matrix: Water
Analysis Batch: 315203

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 313709

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	5.00	4.82		mg/L		96	80 - 120	3	20

Lab Sample ID: MB 570-314066/1-A
Matrix: Water
Analysis Batch: 315063

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 314066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		2.0	0.58	mg/L		03/23/23 08:41	03/27/23 12:48	1

Lab Sample ID: LCS 570-314066/2-A
Matrix: Water
Analysis Batch: 315063

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 314066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	5.00	4.86		mg/L		97	80 - 120

Lab Sample ID: LCSD 570-314066/3-A
Matrix: Water
Analysis Batch: 315063

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 314066

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	5.00	4.70		mg/L		94	80 - 120	3	20

Lab Sample ID: 570-132118-J-1-B MS ^2
Matrix: Water
Analysis Batch: 315063

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 314066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	32		5.00	38.1	4	mg/L		112	83 - 131

Lab Sample ID: 570-132118-J-1-C MSD ^2
Matrix: Water
Analysis Batch: 315063

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 314066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	32		5.00	39.3	4	mg/L		137	83 - 131	3	7

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 570-315808/5-A
Matrix: Water
Analysis Batch: 315825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.075	0.032	mg/L		03/29/23 12:02	03/29/23 13:33	1

Lab Sample ID: LCS 570-315808/6-A
Matrix: Water
Analysis Batch: 315825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315808

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia (as N)			0.500	0.486		mg/L		97	90 - 110		

Lab Sample ID: LCSD 570-315808/7-A
Matrix: Water
Analysis Batch: 315825

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 315808

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)			0.500	0.487		mg/L		97	90 - 110	0	20

Lab Sample ID: 570-131897-1 MS
Matrix: Water
Analysis Batch: 315825

Client Sample ID: CM-9R3
Prep Type: Total/NA
Prep Batch: 315808

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia (as N)	0.16		0.500	0.667		mg/L		101	90 - 110		

Lab Sample ID: 570-131897-1 MSD
Matrix: Water
Analysis Batch: 315825

Client Sample ID: CM-9R3
Prep Type: Total/NA
Prep Batch: 315808

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	0.16		0.500	0.658		mg/L		99	90 - 110	1	25

Method: 410.4 - COD

Lab Sample ID: MB 570-313844/3-A
Matrix: Water
Analysis Batch: 313973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		100	14	mg/L		03/22/23 14:52	03/22/23 21:42	1

Lab Sample ID: LCS 570-313844/4-A
Matrix: Water
Analysis Batch: 313973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313844

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand			200	215		mg/L		107	90 - 110		

Method: 410.4 - COD (Continued)

Lab Sample ID: LCSD 570-313844/5-A
Matrix: Water
Analysis Batch: 313973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 313844

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand			200	217		mg/L		109	90 - 110	1	20

Lab Sample ID: 570-131897-1 MS
Matrix: Water
Analysis Batch: 313973

Client Sample ID: CM-9R3
Prep Type: Total/NA
Prep Batch: 313844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	59	J F1	200	248		mg/L		94	90 - 110

Lab Sample ID: 570-131897-1 MSD
Matrix: Water
Analysis Batch: 313973

Client Sample ID: CM-9R3
Prep Type: Total/NA
Prep Batch: 313844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	59	J F1	200	290	F1	mg/L		115	90 - 110	16	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 570-315037/9
Matrix: Water
Analysis Batch: 315037

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		5.0	2.2	mg/L			03/24/23 20:39	1

Lab Sample ID: LCS 570-315037/7
Matrix: Water
Analysis Batch: 315037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total (As CaCO3)			106	93.8		mg/L		88	78 - 110

Lab Sample ID: LCSD 570-315037/8
Matrix: Water
Analysis Batch: 315037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity, Total (As CaCO3)			106	94.0		mg/L		89	78 - 110	0	10

Lab Sample ID: 570-131915-G-1 DU
Matrix: Water
Analysis Batch: 315037

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity, Total (As CaCO3)	170			168		mg/L				0.05	25

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 570-313930/1
Matrix: Water
Analysis Batch: 313930

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	8.7	mg/L			03/22/23 18:27	1

Lab Sample ID: LCS 570-313930/2
Matrix: Water
Analysis Batch: 313930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	994		mg/L		99	84 - 108		

Lab Sample ID: LCSD 570-313930/3
Matrix: Water
Analysis Batch: 313930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1030		mg/L		103	84 - 108	3	10

Lab Sample ID: 570-131904-F-1 DU
Matrix: Water
Analysis Batch: 313930

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1200			1230		mg/L				0.7	10

Lab Sample ID: MB 570-313936/1
Matrix: Water
Analysis Batch: 313936

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	8.7	mg/L			03/22/23 18:47	1

Lab Sample ID: LCS 570-313936/2
Matrix: Water
Analysis Batch: 313936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1010		mg/L		101	84 - 108		

Lab Sample ID: LCSD 570-313936/3
Matrix: Water
Analysis Batch: 313936

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1050		mg/L		105	84 - 108	4	10

Lab Sample ID: 570-131491-A-4 DU
Matrix: Water
Analysis Batch: 313936

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	6700			6790		mg/L				0.7	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 570-314266/1
Matrix: Water
Analysis Batch: 314266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	8.7	mg/L			03/23/23 17:39	1

Lab Sample ID: LCS 570-314266/2
Matrix: Water
Analysis Batch: 314266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1010		mg/L		101	84 - 108

Lab Sample ID: LCSD 570-314266/3
Matrix: Water
Analysis Batch: 314266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1010		mg/L		101	84 - 108	1	10

Lab Sample ID: 570-131897-4 DU
Matrix: Water
Analysis Batch: 314266

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1700		1700		mg/L		0.1	10

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 570-317141/4
Matrix: Water
Analysis Batch: 317141

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.50	0.26	mg/L			04/03/23 14:42	1

Lab Sample ID: MB 570-317141/41
Matrix: Water
Analysis Batch: 317141

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.50	0.26	mg/L			04/04/23 07:41	1

Lab Sample ID: LCS 570-317141/42
Matrix: Water
Analysis Batch: 317141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	5.03	4.89		mg/L		97	85 - 115

Method: SM 5310D - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 570-317141/5
Matrix: Water
Analysis Batch: 317141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	5.03	4.82		mg/L		96	85 - 115

Lab Sample ID: LCSD 570-317141/43
Matrix: Water
Analysis Batch: 317141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	5.03	4.86		mg/L		97	85 - 115	1	20

Lab Sample ID: LCSD 570-317141/6
Matrix: Water
Analysis Batch: 317141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	5.03	4.91		mg/L		98	85 - 115	2	20

Lab Sample ID: 570-131897-1 MS
Matrix: Water
Analysis Batch: 317141

Client Sample ID: CM-9R3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	15		50.3	60.8		mg/L		91	31 - 145

Lab Sample ID: 570-131897-1 MSD
Matrix: Water
Analysis Batch: 317141

Client Sample ID: CM-9R3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	15		50.3	60.7		mg/L		91	31 - 145	0	20

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

GC/MS VOA

Analysis Batch: 313571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total/NA	Water	8260B	
570-131897-2	CM-10R	Total/NA	Water	8260B	
570-131897-3	CM-11R	Total/NA	Water	8260B	
570-131897-4	MW-6	Total/NA	Water	8260B	
570-131897-5	MW-14	Total/NA	Water	8260B	
570-131897-6	PZ-2	Total/NA	Water	8260B	
570-131897-7	Duplicate	Total/NA	Water	8260B	
570-131897-8	LY-7	Total/NA	Water	8260B	
570-131897-10	Field Blank	Total/NA	Water	8260B	
570-131897-11	Trip Blank	Total/NA	Water	8260B	
MB 570-313571/6	Method Blank	Total/NA	Water	8260B	
LCS 570-313571/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-313571/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 313670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-9	Combined Subdrains	Total/NA	Water	8260B	
MB 570-313670/10	Method Blank	Total/NA	Water	8260B	
LCS 570-313670/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-313670/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 313778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total/NA	Water	3510C	
570-131897-2	CM-10R	Total/NA	Water	3510C	
570-131897-3	CM-11R	Total/NA	Water	3510C	
570-131897-4	MW-6	Total/NA	Water	3510C	
570-131897-5	MW-14	Total/NA	Water	3510C	
MB 570-313778/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-313778/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-313778/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 314304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total/NA	Water	8270C SIM ID	313778
570-131897-2	CM-10R	Total/NA	Water	8270C SIM ID	313778
570-131897-3	CM-11R	Total/NA	Water	8270C SIM ID	313778
570-131897-4	MW-6	Total/NA	Water	8270C SIM ID	313778
570-131897-5	MW-14	Total/NA	Water	8270C SIM ID	313778
MB 570-313778/1-A	Method Blank	Total/NA	Water	8270C SIM ID	313778
LCS 570-313778/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	313778
LCSD 570-313778/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	313778

Prep Batch: 314427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-6	PZ-2	Total/NA	Water	3510C	
MB 570-314427/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-314427/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-314427/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC/MS Semi VOA

Analysis Batch: 314627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-6	PZ-2	Total/NA	Water	8270C SIM ID	314427
MB 570-314427/1-A	Method Blank	Total/NA	Water	8270C SIM ID	314427
LCS 570-314427/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	314427
LCSD 570-314427/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	314427

Prep Batch: 314885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-7	Duplicate	Total/NA	Water	3510C	
570-131897-8 - DL	LY-7	Total/NA	Water	3510C	
570-131897-9	Combined Subdrains	Total/NA	Water	3510C	
MB 570-314885/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-314885/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-314885/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
570-132380-B-3-A MS	Matrix Spike	Total/NA	Water	3510C	
570-132380-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 315064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-7	Duplicate	Total/NA	Water	8270C SIM ID	314885
570-131897-9	Combined Subdrains	Total/NA	Water	8270C SIM ID	314885
MB 570-314885/1-A	Method Blank	Total/NA	Water	8270C SIM ID	314885
LCS 570-314885/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	314885
LCSD 570-314885/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	314885
570-132380-B-3-A MS	Matrix Spike	Total/NA	Water	8270C SIM ID	314885
570-132380-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270C SIM ID	314885

Analysis Batch: 315363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-8 - DL	LY-7	Total/NA	Water	8270C SIM ID	314885

HPLC/IC

Analysis Batch: 314843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total/NA	Water	300.0	
570-131897-2	CM-10R	Total/NA	Water	300.0	
570-131897-3	CM-11R	Total/NA	Water	300.0	
570-131897-4	MW-6	Total/NA	Water	300.0	
570-131897-5	MW-14	Total/NA	Water	300.0	
570-131897-6	PZ-2	Total/NA	Water	300.0	
570-131897-7	Duplicate	Total/NA	Water	300.0	
570-131897-8	LY-7	Total/NA	Water	300.0	
570-131897-9	Combined Subdrains	Total/NA	Water	300.0	
MB 570-314843/5	Method Blank	Total/NA	Water	300.0	
LCS 570-314843/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-314843/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-131897-1 MS	CM-9R3	Total/NA	Water	300.0	
570-131897-1 MSD	CM-9R3	Total/NA	Water	300.0	

Metals

Prep Batch: 313709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total Recoverable	Water	3005A	
570-131897-2	CM-10R	Total Recoverable	Water	3005A	
570-131897-3	CM-11R	Total Recoverable	Water	3005A	
570-131897-4	MW-6	Total Recoverable	Water	3005A	
570-131897-5	MW-14	Total Recoverable	Water	3005A	
570-131897-6	PZ-2	Total Recoverable	Water	3005A	
570-131897-7	Duplicate	Total Recoverable	Water	3005A	
570-131897-9	Combined Subdrains	Total Recoverable	Water	3005A	
MB 570-313709/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 570-313709/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 570-313709/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
570-131851-K-1-B MS	Matrix Spike	Total/NA	Water	3005A	
570-131851-K-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Prep Batch: 314066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-8	LY-7	Total Recoverable	Water	3005A	
MB 570-314066/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 570-314066/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 570-314066/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
570-132118-J-1-B MS ^2	Matrix Spike	Total Recoverable	Water	3005A	
570-132118-J-1-C MSD ^2	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 315063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-314066/1-A	Method Blank	Total Recoverable	Water	6010B	314066
LCS 570-314066/2-A	Lab Control Sample	Total Recoverable	Water	6010B	314066
LCSD 570-314066/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	314066
570-132118-J-1-B MS ^2	Matrix Spike	Total Recoverable	Water	6010B	314066
570-132118-J-1-C MSD ^2	Matrix Spike Duplicate	Total Recoverable	Water	6010B	314066

Analysis Batch: 315203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total Recoverable	Water	6010B	313709
570-131897-2	CM-10R	Total Recoverable	Water	6010B	313709
570-131897-3	CM-11R	Total Recoverable	Water	6010B	313709
570-131897-4	MW-6	Total Recoverable	Water	6010B	313709
570-131897-5	MW-14	Total Recoverable	Water	6010B	313709
570-131897-6	PZ-2	Total Recoverable	Water	6010B	313709
570-131897-7	Duplicate	Total Recoverable	Water	6010B	313709
570-131897-9	Combined Subdrains	Total Recoverable	Water	6010B	313709
MB 570-313709/1-A	Method Blank	Total Recoverable	Water	6010B	313709
LCS 570-313709/2-A	Lab Control Sample	Total Recoverable	Water	6010B	313709
LCSD 570-313709/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	313709
570-131851-K-1-B MS	Matrix Spike	Total/NA	Water	6010B	313709
570-131851-K-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	313709

Analysis Batch: 315473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-8	LY-7	Total Recoverable	Water	6010B	314066

General Chemistry

Prep Batch: 313844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total/NA	Water	410.4	
570-131897-2	CM-10R	Total/NA	Water	410.4	
570-131897-3	CM-11R	Total/NA	Water	410.4	
570-131897-4	MW-6	Total/NA	Water	410.4	
570-131897-5	MW-14	Total/NA	Water	410.4	
570-131897-6	PZ-2	Total/NA	Water	410.4	
570-131897-7	Duplicate	Total/NA	Water	410.4	
570-131897-8	LY-7	Total/NA	Water	410.4	
570-131897-9	Combined Subdrains	Total/NA	Water	410.4	
MB 570-313844/3-A	Method Blank	Total/NA	Water	410.4	
LCS 570-313844/4-A	Lab Control Sample	Total/NA	Water	410.4	
LCSD 570-313844/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	
570-131897-1 MS	CM-9R3	Total/NA	Water	410.4	
570-131897-1 MSD	CM-9R3	Total/NA	Water	410.4	

Analysis Batch: 313930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total/NA	Water	SM 2540C	
570-131897-2	CM-10R	Total/NA	Water	SM 2540C	
570-131897-3	CM-11R	Total/NA	Water	SM 2540C	
570-131897-4	MW-6	Total/NA	Water	SM 2540C	
570-131897-5	MW-14	Total/NA	Water	SM 2540C	
MB 570-313930/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-313930/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-313930/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-131904-F-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 313936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-6	PZ-2	Total/NA	Water	SM 2540C	
570-131897-7	Duplicate	Total/NA	Water	SM 2540C	
570-131897-8	LY-7	Total/NA	Water	SM 2540C	
570-131897-9	Combined Subdrains	Total/NA	Water	SM 2540C	
MB 570-313936/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-313936/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-313936/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-131491-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 313973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total/NA	Water	410.4	313844
570-131897-2	CM-10R	Total/NA	Water	410.4	313844
570-131897-3	CM-11R	Total/NA	Water	410.4	313844
570-131897-4	MW-6	Total/NA	Water	410.4	313844
570-131897-5	MW-14	Total/NA	Water	410.4	313844
570-131897-6	PZ-2	Total/NA	Water	410.4	313844
570-131897-7	Duplicate	Total/NA	Water	410.4	313844
570-131897-8	LY-7	Total/NA	Water	410.4	313844
570-131897-9	Combined Subdrains	Total/NA	Water	410.4	313844
MB 570-313844/3-A	Method Blank	Total/NA	Water	410.4	313844
LCS 570-313844/4-A	Lab Control Sample	Total/NA	Water	410.4	313844

General Chemistry (Continued)

Analysis Batch: 313973 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-313844/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	313844
570-131897-1 MS	CM-9R3	Total/NA	Water	410.4	313844
570-131897-1 MSD	CM-9R3	Total/NA	Water	410.4	313844

Analysis Batch: 314266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-314266/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-314266/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-314266/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-131897-4 DU	MW-6	Total/NA	Water	SM 2540C	

Analysis Batch: 315037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total/NA	Water	SM 2320B	
570-131897-2	CM-10R	Total/NA	Water	SM 2320B	
570-131897-3	CM-11R	Total/NA	Water	SM 2320B	
570-131897-4	MW-6	Total/NA	Water	SM 2320B	
570-131897-5	MW-14	Total/NA	Water	SM 2320B	
570-131897-6	PZ-2	Total/NA	Water	SM 2320B	
570-131897-7	Duplicate	Total/NA	Water	SM 2320B	
570-131897-8	LY-7	Total/NA	Water	SM 2320B	
570-131897-9	Combined Subdrains	Total/NA	Water	SM 2320B	
MB 570-315037/9	Method Blank	Total/NA	Water	SM 2320B	
LCS 570-315037/7	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 570-315037/8	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
570-131915-G-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Prep Batch: 315808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total/NA	Water	Distill/Ammonia	
570-131897-2	CM-10R	Total/NA	Water	Distill/Ammonia	
570-131897-3	CM-11R	Total/NA	Water	Distill/Ammonia	
570-131897-4	MW-6	Total/NA	Water	Distill/Ammonia	
570-131897-5	MW-14	Total/NA	Water	Distill/Ammonia	
570-131897-6	PZ-2	Total/NA	Water	Distill/Ammonia	
570-131897-7	Duplicate	Total/NA	Water	Distill/Ammonia	
570-131897-8	LY-7	Total/NA	Water	Distill/Ammonia	
570-131897-9	Combined Subdrains	Total/NA	Water	Distill/Ammonia	
MB 570-315808/5-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 570-315808/6-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
LCSD 570-315808/7-A	Lab Control Sample Dup	Total/NA	Water	Distill/Ammonia	
570-131897-1 MS	CM-9R3	Total/NA	Water	Distill/Ammonia	
570-131897-1 MSD	CM-9R3	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 315825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total/NA	Water	350.1	315808
570-131897-2	CM-10R	Total/NA	Water	350.1	315808
570-131897-3	CM-11R	Total/NA	Water	350.1	315808
570-131897-4	MW-6	Total/NA	Water	350.1	315808
570-131897-5	MW-14	Total/NA	Water	350.1	315808

General Chemistry (Continued)

Analysis Batch: 315825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-6	PZ-2	Total/NA	Water	350.1	315808
570-131897-7	Duplicate	Total/NA	Water	350.1	315808
570-131897-8	LY-7	Total/NA	Water	350.1	315808
570-131897-9	Combined Subdrains	Total/NA	Water	350.1	315808
MB 570-315808/5-A	Method Blank	Total/NA	Water	350.1	315808
LCS 570-315808/6-A	Lab Control Sample	Total/NA	Water	350.1	315808
LCSD 570-315808/7-A	Lab Control Sample Dup	Total/NA	Water	350.1	315808
570-131897-1 MS	CM-9R3	Total/NA	Water	350.1	315808
570-131897-1 MSD	CM-9R3	Total/NA	Water	350.1	315808

Analysis Batch: 317141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-131897-1	CM-9R3	Total/NA	Water	SM 5310D	
570-131897-2	CM-10R	Total/NA	Water	SM 5310D	
570-131897-3	CM-11R	Total/NA	Water	SM 5310D	
570-131897-4	MW-6	Total/NA	Water	SM 5310D	
570-131897-5	MW-14	Total/NA	Water	SM 5310D	
570-131897-6	PZ-2	Total/NA	Water	SM 5310D	
570-131897-7	Duplicate	Total/NA	Water	SM 5310D	
570-131897-8	LY-7	Total/NA	Water	SM 5310D	
570-131897-9	Combined Subdrains	Total/NA	Water	SM 5310D	
MB 570-317141/4	Method Blank	Total/NA	Water	SM 5310D	
MB 570-317141/41	Method Blank	Total/NA	Water	SM 5310D	
LCS 570-317141/42	Lab Control Sample	Total/NA	Water	SM 5310D	
LCS 570-317141/5	Lab Control Sample	Total/NA	Water	SM 5310D	
LCSD 570-317141/43	Lab Control Sample Dup	Total/NA	Water	SM 5310D	
LCSD 570-317141/6	Lab Control Sample Dup	Total/NA	Water	SM 5310D	
570-131897-1 MS	CM-9R3	Total/NA	Water	SM 5310D	
570-131897-1 MSD	CM-9R3	Total/NA	Water	SM 5310D	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: CM-9R3

Date Collected: 03/20/23 11:45
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	313571	03/21/23 23:12	A1W	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			134 mL	10 mL	313778	03/23/23 07:00	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314304	03/24/23 07:05	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		10	4 mL	4 mL	314843	03/27/23 07:52	UIP1	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	313709	03/22/23 09:15	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315203	03/27/23 19:43	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	315808	03/29/23 12:02	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	315825	03/29/23 14:02	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	313844	03/22/23 14:52	ZL7L	EET CAL 4
Total/NA	Analysis	410.4		1			313973	03/22/23 21:42	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	315037	03/24/23 22:22	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	313930	03/22/23 18:27	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		10	40 mL	40 mL	317141	04/03/23 17:39	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: CM-10R

Date Collected: 03/20/23 13:24
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	313571	03/21/23 23:37	A1W	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			134 mL	10 mL	313778	03/23/23 07:00	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314304	03/24/23 07:19	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		10	4 mL	4 mL	314843	03/27/23 08:09	UIP1	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	313709	03/22/23 09:15	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315203	03/27/23 19:45	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	315808	03/29/23 12:02	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	315825	03/29/23 14:03	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	313844	03/22/23 14:52	ZL7L	EET CAL 4
Total/NA	Analysis	410.4		1			313973	03/22/23 21:42	ZL7L	EET CAL 4
	Instrument ID: UV10									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: CM-10R

Date Collected: 03/20/23 13:24
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	315037	03/24/23 22:29	BDH9	EET CAL 4
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	313930	03/22/23 18:27	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	317141	04/04/23 18:14	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: CM-11R

Date Collected: 03/20/23 15:08
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	313571	03/22/23 00:02	A1W	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			134.1 mL	10 mL	313778	03/23/23 07:00	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314304	03/24/23 07:34	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		10	4 mL	4 mL	314843	03/27/23 08:26	UIP1	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	313709	03/22/23 09:15	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315203	03/27/23 19:52	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	315808	03/29/23 12:02	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	315825	03/29/23 14:05	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	313844	03/22/23 14:52	ZL7L	EET CAL 4
Total/NA	Analysis	410.4		1			313973	03/22/23 21:42	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	315037	03/24/23 22:34	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	30 mL	1000 mL	313930	03/22/23 18:27	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		4	40 mL	40 mL	317141	04/03/23 23:41	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: MW-6

Date Collected: 03/20/23 13:14
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	313571	03/22/23 00:27	A1W	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			133.3 mL	10 mL	313778	03/23/23 07:00	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314304	03/24/23 07:48	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: MW-6

Date Collected: 03/20/23 13:14
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	4 mL	4 mL	314843	03/27/23 08:42	UIP1	EET CAL 4
Total Recoverable	Prep	3005A			50 mL	50 mL	313709	03/22/23 09:15	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315203	03/27/23 19:55	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	315808	03/29/23 12:02	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	315825	03/29/23 14:06	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	313844	03/22/23 14:52	ZL7L	EET CAL 4
Total/NA	Analysis	410.4		1			313973	03/22/23 21:42	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	315037	03/24/23 22:41	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	313930	03/22/23 18:27	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		4	40 mL	40 mL	317141	04/04/23 00:03	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: MW-14

Date Collected: 03/20/23 11:25
Date Received: 03/20/23 18:45

Lab Sample ID: 570-131897-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	313571	03/22/23 02:32	A1W	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			134.9 mL	10 mL	313778	03/23/23 07:00	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314304	03/24/23 08:03	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		20	4 mL	4 mL	314843	03/27/23 08:59	UIP1	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	313709	03/22/23 09:15	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315203	03/27/23 19:57	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	315808	03/29/23 12:02	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	315825	03/29/23 14:08	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	313844	03/22/23 14:52	ZL7L	EET CAL 4
Total/NA	Analysis	410.4		1			313973	03/22/23 21:42	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	315037	03/24/23 22:47	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	20 mL	1000 mL	313930	03/22/23 18:27	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		4	40 mL	40 mL	317141	04/04/23 00:47	UAPD	EET CAL 4
	Instrument ID: TOC12									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: PZ-2

Lab Sample ID: 570-131897-6

Date Collected: 03/20/23 10:02

Matrix: Water

Date Received: 03/20/23 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	313571	03/22/23 00:52	A1W	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			134.3 mL	10 mL	314427	03/24/23 09:02	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314627	03/24/23 18:39	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		20	4 mL	4 mL	314843	03/27/23 09:16	UIP1	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	313709	03/22/23 09:15	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315203	03/27/23 20:08	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	315808	03/29/23 12:02	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	315825	03/29/23 14:09	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	313844	03/22/23 14:52	ZL7L	EET CAL 4
Total/NA	Analysis	410.4		1			313973	03/22/23 21:42	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	315037	03/24/23 22:54	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	313936	03/22/23 18:47	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	317141	04/04/23 17:07	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: Duplicate

Lab Sample ID: 570-131897-7

Date Collected: 03/20/23 00:00

Matrix: Water

Date Received: 03/20/23 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	313571	03/22/23 01:17	A1W	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			134.9 mL	10 mL	314885	03/27/23 08:15	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	315064	03/27/23 20:47	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		10	4 mL	4 mL	314843	03/27/23 09:33	UIP1	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	313709	03/22/23 09:15	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315203	03/27/23 20:11	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	315808	03/29/23 12:02	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	315825	03/29/23 14:11	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	313844	03/22/23 14:52	ZL7L	EET CAL 4
Total/NA	Analysis	410.4		1			313973	03/22/23 21:42	ZL7L	EET CAL 4
	Instrument ID: UV10									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: Duplicate

Lab Sample ID: 570-131897-7

Date Collected: 03/20/23 00:00
Matrix: Water
Date Received: 03/20/23 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	315037	03/24/23 23:01	BDH9	EET CAL 4
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	313936	03/22/23 18:47	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	317141	04/04/23 17:29	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: LY-7

Lab Sample ID: 570-131897-8

Date Collected: 03/20/23 09:11
Matrix: Water
Date Received: 03/20/23 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	20 mL	20 mL	313571	03/22/23 01:42	A1W	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C	DL		126.7 mL	10 mL	314885	03/27/23 08:15	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID	DL	10	1 mL	1 mL	315363	03/28/23 12:04	A1W	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		100	4 mL	4 mL	314843	03/27/23 09:50	UIP1	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	314066	03/23/23 08:41	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315473	03/28/23 15:43	K1UV	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	315808	03/29/23 12:02	UXCH	EET CAL 4
Total/NA	Analysis	350.1		50	5 mL	5 mL	315825	03/29/23 14:14	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	313844	03/22/23 14:52	ZL7L	EET CAL 4
Total/NA	Analysis	410.4		1			313973	03/22/23 21:42	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	315037	03/24/23 23:11	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	313936	03/22/23 18:47	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		100	40 mL	40 mL	317141	04/04/23 01:54	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: Combined Subdrains

Lab Sample ID: 570-131897-9

Date Collected: 03/20/23 11:50
Matrix: Water
Date Received: 03/20/23 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	313670	03/22/23 16:22	UJHB	EET CAL 4
	Instrument ID: GCMSVV									
Total/NA	Prep	3510C			131 mL	10 mL	314885	03/27/23 08:15	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	315064	03/27/23 21:16	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Client Sample ID: Combined Subdrains

Lab Sample ID: 570-131897-9

Date Collected: 03/20/23 11:50

Matrix: Water

Date Received: 03/20/23 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	4 mL	4 mL	314843	03/27/23 10:07	UIP1	EET CAL 4
Total Recoverable	Prep	3005A			50 mL	50 mL	313709	03/22/23 09:15	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315203	03/27/23 20:13	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	315808	03/29/23 12:02	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	315825	03/29/23 14:12	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	313844	03/22/23 14:52	ZL7L	EET CAL 4
Total/NA	Analysis	410.4		1			313973	03/22/23 21:42	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	315037	03/24/23 23:17	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	30 mL	1000 mL	313936	03/22/23 18:47	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	317141	04/04/23 17:51	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: Field Blank

Lab Sample ID: 570-131897-10

Date Collected: 03/20/23 00:00

Matrix: Water

Date Received: 03/20/23 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	313571	03/21/23 22:23	A1W	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: Trip Blank

Lab Sample ID: 570-131897-11

Date Collected: 03/20/23 00:00

Matrix: Water

Date Received: 03/20/23 18:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	313571	03/21/23 22:48	A1W	EET CAL 4
	Instrument ID: GCMSUU									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geo-Logic Associates
Job ID: 570-131897-1
Project/Site: Republic Sunshine Canyon

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	Los Angeles County Sanitation Districts	10109	07-31-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Nevada	State	CA00111	08-01-23
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	05-24-23
Washington	State	C916-18	10-11-23

Method Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
350.1	Nitrogen, Ammonia	EPA	EET CAL 4
410.4	COD	EPA	EET CAL 4
SM 2320B	Alkalinity	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
SM 5310D	Organic Carbon, Total (TOC)	SM	EET CAL 4
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
410.4	COD	EPA	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
Distill/Ammonia	Distillation, Ammonia	None	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-131897-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-131897-1	CM-9R3	Water	03/20/23 11:45	03/20/23 18:45
570-131897-2	CM-10R	Water	03/20/23 13:24	03/20/23 18:45
570-131897-3	CM-11R	Water	03/20/23 15:08	03/20/23 18:45
570-131897-4	MW-6	Water	03/20/23 13:14	03/20/23 18:45
570-131897-5	MW-14	Water	03/20/23 11:25	03/20/23 18:45
570-131897-6	PZ-2	Water	03/20/23 10:02	03/20/23 18:45
570-131897-7	Duplicate	Water	03/20/23 00:00	03/20/23 18:45
570-131897-8	LY-7	Water	03/20/23 09:11	03/20/23 18:45
570-131897-9	Combined Subdrains	Water	03/20/23 11:50	03/20/23 18:45
570-131897-10	Field Blank	Water	03/20/23 00:00	03/20/23 18:45
570-131897-11	Trip Blank	Water	03/20/23 00:00	03/20/23 18:45

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

570-131897 Chain of Custody

Client Information

Sampler: BS, NR, CV
Lab PM: Rossiter, Tommy
Client Contact: Kyle Weldon / Paul Koster
Phone: 858-451-1136
E-Mail: eurofins
Page: 1 of 1
Company: GLA / Republic Services
Job #: 5022, 1032
Address: 11445 W. Bernardo Ct.
Due Date Requested:
City: San Diego, CA
TAT Requested (days):
State, Zip: CA 92127
Phone: 858-451-1136 / 858-362-2258
PO #:
Email:
WO #:
Project Name: Sunshine Cyn. Landfill
Project #:
Site:
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 8260B - VOCs	EPA 8270 - 1,4-Dioxane (SIM)	Nitrate, Nitrite (300.0)	Ammonia (350.1)	COD (410.4)	Chloride (300.0)	TDS (160.1)	TOC (415.1)	Total Number of containers	Special Instructions/Note:
			Preservation Code:													
CM-9R3	3/20/23	1145	G	GW			X	X		X	X	X			13	
CM-10R		1324					X	X		X	X	X			13	
CM-11R		1508					X	X		X	X	X			13	
MW-6		1314					X	X		X	X	X			13	
MW-14		1125					X	X		X	X	X			13	
PZ-2		1002					X	X		X	X	X			13	
Duplicate		—		GW			X	X		X	X	X			13	
LY-7		0911		WW			X	X		X	X	X			13	
Combined Subtrains		1150		WW			X	X		X	X	X			13	
Field Blank		—		Lab Water			X								4	
Trip Blank	3/20/23	—		"			X								2	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 3/20/23 1618	Company: GLA	Received by:	Date/Time: 3/20/23 1618	Company: EC		
Relinquished by:	Date/Time: 3/20/23 1845	Company: EC	Received by:	Date/Time: 3/20/23 1845	Company: EC		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

2.2/2.1 3.1/3.0 1.9/1.8 SC12

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 570-131897-1

Login Number: 131897
List Number: 1
Creator: Skinner, Alma D

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Welchans
Geo-Logic Associates
11415 West Bernardo Court
Suite 200
San Diego, California 92127

Generated 4/5/2023 3:00:50 PM

JOB DESCRIPTION

Republic Sunshine Canyon

JOB NUMBER

570-132118-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

my EOL

Eurofins Calscience

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

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Authorized for release by
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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Job ID: 570-132118-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-132118-1

Receipt
The samples were received on 3/21/2023 5:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6°C and 2.0°C

GC/MS VOA
Method 8260B_LL: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-314241. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270C_SIM_MS_ID: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-314427. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 570-314840 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 570-314843 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 410.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-314586 and analytical batch 570-314631 were outside control limits: (570-132118-I-1-B MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: MW-1 — Lab Sample ID: 570-132118-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.7		0.37	0.25	ug/L	1		8270C SIM ID	Total/NA
Chloride	650		100	36	mg/L	100		300.0	Total/NA
Potassium	32		4.0	1.2	mg/L	2		6010B	Total Recoverable
Ammonia (as N)	0.10		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	100	F1	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	480		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	6800		100	87	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	19		10	5.3	mg/L	20		SM 5310D	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 570-132118-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.7		0.38	0.26	ug/L	1		8270C SIM ID	Total/NA
Chloride	95		10	3.6	mg/L	10		300.0	Total/NA
Potassium	18		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	2.7		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	100		100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	470		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2400		20	17	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	14		10	5.3	mg/L	20		SM 5310D	Total/NA

Client Sample ID: MW-13R — Lab Sample ID: 570-132118-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.99	J	1.0	0.32	ug/L	1		8260B	Total/NA
1,4-Dioxane	6.3		0.38	0.26	ug/L	1		8270C SIM ID	Total/NA
Chloride	100		10	3.6	mg/L	10		300.0	Total/NA
Potassium	38		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	13		0.75	0.32	mg/L	10		350.1	Total/NA
Chemical Oxygen Demand	610		100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	630		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2100		20	17	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	52		10	5.3	mg/L	20		SM 5310D	Total/NA

Client Sample ID: DW-2 — Lab Sample ID: 570-132118-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		10	3.6	mg/L	10		300.0	Total/NA
Potassium	4.0		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	3.0		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	47	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	360		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1900		20	17	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.8		0.50	0.26	mg/L	1		SM 5310D	Total/NA

Client Sample ID: DW-3 — Lab Sample ID: 570-132118-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13		10	3.6	mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: DW-3 (Continued) — Lab Sample ID: 570-132118-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	8.9		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	0.53		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	17	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	140		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1900		20	17	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	0.63		0.50	0.26	mg/L	1		SM 5310D	Total/NA

Client Sample ID: DW-5 — Lab Sample ID: 570-132118-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isobutyl alcohol	66		50	35	ug/L	1		8260B	Total/NA
Toluene	0.32	J	0.50	0.14	ug/L	1		8260B	Total/NA
Chloride	18		10	3.6	mg/L	10		300.0	Total/NA
Potassium	1.3	J	2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	0.22		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	64	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	920		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		20	17	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	7.8		2.0	1.1	mg/L	4		SM 5310D	Total/NA

Client Sample ID: PZ-4 — Lab Sample ID: 570-132118-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.2		0.38	0.26	ug/L	1		8270C SIM ID	Total/NA
Chloride	9.3	J	10	3.6	mg/L	10		300.0	Total/NA
Potassium	6.2		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	3.1		0.075	0.032	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	31	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	310		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1900		20	17	mg/L	1		SM 2540C	Total/NA
Total Organic Carbon	1.9		0.50	0.26	mg/L	1		SM 5310D	Total/NA

Client Sample ID: Field Blank — Lab Sample ID: 570-132118-8

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 570-132118-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: MW-1

Date Collected: 03/21/23 12:03
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/24/23 06:46	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/24/23 06:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/24/23 06:46	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/24/23 06:46	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/24/23 06:46	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/24/23 06:46	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/24/23 06:46	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/24/23 06:46	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/24/23 06:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/24/23 06:46	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/24/23 06:46	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/24/23 06:46	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/24/23 06:46	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/24/23 06:46	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/24/23 06:46	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/24/23 06:46	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/24/23 06:46	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/24/23 06:46	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/24/23 06:46	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/24/23 06:46	1
2-Hexanone	ND		6.0	2.0	ug/L			03/24/23 06:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/24/23 06:46	1
Acetone	ND		8.0	3.6	ug/L			03/24/23 06:46	1
Acrolein	ND		4.0	3.6	ug/L			03/24/23 06:46	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/24/23 06:46	1
Allyl chloride	ND		2.0	0.47	ug/L			03/24/23 06:46	1
Benzene	ND		0.50	0.14	ug/L			03/24/23 06:46	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/24/23 06:46	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/24/23 06:46	1
Bromoform	ND		0.50	0.28	ug/L			03/24/23 06:46	1
Bromomethane	ND		2.0	1.9	ug/L			03/24/23 06:46	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/24/23 06:46	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/24/23 06:46	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/24/23 06:46	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/24/23 06:46	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/24/23 06:46	1
Chloroethane	ND		0.50	0.38	ug/L			03/24/23 06:46	1
Chloroform	ND		0.50	0.17	ug/L			03/24/23 06:46	1
Chloromethane	ND		1.0	0.65	ug/L			03/24/23 06:46	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/24/23 06:46	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/24/23 06:46	1
Dibromomethane	ND		0.50	0.16	ug/L			03/24/23 06:46	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/24/23 06:46	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/24/23 06:46	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/24/23 06:46	1
Iodomethane	ND		25	8.7	ug/L			03/24/23 06:46	1
Isobutyl alcohol	ND		50	35	ug/L			03/24/23 06:46	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/24/23 06:46	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/24/23 06:46	1

Client Sample ID: MW-1
Date Collected: 03/21/23 12:03
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/24/23 06:46	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/24/23 06:46	1
Naphthalene	ND		1.0	0.55	ug/L			03/24/23 06:46	1
o-Xylene	ND		0.50	0.18	ug/L			03/24/23 06:46	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/24/23 06:46	1
Propionitrile	ND		5.0	3.1	ug/L			03/24/23 06:46	1
Styrene	ND		0.50	0.27	ug/L			03/24/23 06:46	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/24/23 06:46	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/24/23 06:46	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/24/23 06:46	1
t-Butanol	ND		5.0	3.1	ug/L			03/24/23 06:46	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/24/23 06:46	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/24/23 06:46	1
Toluene	ND		0.50	0.14	ug/L			03/24/23 06:46	1
Trichloroethene	ND		0.50	0.15	ug/L			03/24/23 06:46	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/24/23 06:46	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/24/23 06:46	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/24/23 06:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*300*	*T J*	*ug/L*		*2.01*	*N/A*		*03/24/23 06:46*	*1*
Unknown	*190*	*T J*	*ug/L*		*2.22*	*N/A*		*03/24/23 06:46*	*1*
Unknown	*3600*	*T J*	*ug/L*		*2.35*	*N/A*		*03/24/23 06:46*	*1*
Unknown	*250*	*T J*	*ug/L*		*2.69*	*N/A*		*03/24/23 06:46*	*1*
Unknown	*320*	*T J*	*ug/L*		*3.06*	*N/A*		*03/24/23 06:46*	*1*
Unknown	*240*	*T J*	*ug/L*		*3.19*	*N/A*		*03/24/23 06:46*	*1*
Unknown	*270*	*T J*	*ug/L*		*3.25*	*N/A*		*03/24/23 06:46*	*1*
Unknown	*240*	*T J*	*ug/L*		*3.90*	*N/A*		*03/24/23 06:46*	*1*
Unknown	*1300*	*T J*	*ug/L*		*4.46*	*N/A*		*03/24/23 06:46*	*1*
Unknown	*210*	*T J*	*ug/L*		*4.81*	*N/A*		*03/24/23 06:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 132*		*03/24/23 06:46*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*03/24/23 06:46*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*03/24/23 06:46*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/24/23 06:46*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.7**		0.37	0.25	ug/L		03/24/23 09:02	03/24/23 21:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*21 - 120*	*03/24/23 09:02*	*03/24/23 21:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*77*		*58 - 135*	*03/24/23 09:02*	*03/24/23 21:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**650**		100	36	mg/L			03/27/23 13:13	100

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: MW-1

Date Collected: 03/21/23 12:03
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-1

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	32		4.0	1.2	mg/L		03/23/23 08:41	03/27/23 13:00	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	0.10		0.075	0.032	mg/L		04/03/23 10:18	04/03/23 12:42	1
Chemical Oxygen Demand (EPA 410.4)	100	F1	100	14	mg/L		03/24/23 15:53	03/24/23 17:28	1
Alkalinity, Total (As CaCO3) (SM 2320B)	480		5.0	2.2	mg/L			03/31/23 15:52	1
Total Dissolved Solids (SM 2540C)	6800		100	87	mg/L			03/28/23 21:51	1
Total Organic Carbon (SM 5310D)	19		10	5.3	mg/L			04/05/23 05:57	20

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: MW-5

Date Collected: 03/21/23 10:24
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/24/23 09:52	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/24/23 09:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/24/23 09:52	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/24/23 09:52	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/24/23 09:52	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/24/23 09:52	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/24/23 09:52	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/24/23 09:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/24/23 09:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/24/23 09:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/24/23 09:52	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/24/23 09:52	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/24/23 09:52	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/24/23 09:52	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/24/23 09:52	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/24/23 09:52	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/24/23 09:52	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/24/23 09:52	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/24/23 09:52	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/24/23 09:52	1
2-Hexanone	ND		6.0	2.0	ug/L			03/24/23 09:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/24/23 09:52	1
Acetone	ND		8.0	3.6	ug/L			03/24/23 09:52	1
Acrolein	ND		4.0	3.6	ug/L			03/24/23 09:52	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/24/23 09:52	1
Allyl chloride	ND		2.0	0.47	ug/L			03/24/23 09:52	1
Benzene	ND		0.50	0.14	ug/L			03/24/23 09:52	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/24/23 09:52	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/24/23 09:52	1
Bromoform	ND		0.50	0.28	ug/L			03/24/23 09:52	1
Bromomethane	ND		2.0	1.9	ug/L			03/24/23 09:52	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/24/23 09:52	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/24/23 09:52	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/24/23 09:52	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/24/23 09:52	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/24/23 09:52	1
Chloroethane	ND		0.50	0.38	ug/L			03/24/23 09:52	1
Chloroform	ND		0.50	0.17	ug/L			03/24/23 09:52	1
Chloromethane	ND		1.0	0.65	ug/L			03/24/23 09:52	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/24/23 09:52	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/24/23 09:52	1
Dibromomethane	ND		0.50	0.16	ug/L			03/24/23 09:52	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/24/23 09:52	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/24/23 09:52	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/24/23 09:52	1
Iodomethane	ND		25	8.7	ug/L			03/24/23 09:52	1
Isobutyl alcohol	ND		50	35	ug/L			03/24/23 09:52	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/24/23 09:52	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/24/23 09:52	1

Client Sample ID: MW-5
Date Collected: 03/21/23 10:24
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/24/23 09:52	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/24/23 09:52	1
Naphthalene	ND		1.0	0.55	ug/L			03/24/23 09:52	1
o-Xylene	ND		0.50	0.18	ug/L			03/24/23 09:52	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/24/23 09:52	1
Propionitrile	ND		5.0	3.1	ug/L			03/24/23 09:52	1
Styrene	ND		0.50	0.27	ug/L			03/24/23 09:52	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/24/23 09:52	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/24/23 09:52	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/24/23 09:52	1
t-Butanol	ND		5.0	3.1	ug/L			03/24/23 09:52	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/24/23 09:52	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/24/23 09:52	1
Toluene	ND		0.50	0.14	ug/L			03/24/23 09:52	1
Trichloroethene	ND		0.50	0.15	ug/L			03/24/23 09:52	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/24/23 09:52	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/24/23 09:52	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/24/23 09:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*240*	*T J*	*ug/L*		*2.02*	*N/A*		*03/24/23 09:52*	*1*
Unknown	*230*	*T J*	*ug/L*		*2.06*	*N/A*		*03/24/23 09:52*	*1*
Unknown	*520*	*T J*	*ug/L*		*2.21*	*N/A*		*03/24/23 09:52*	*1*
Unknown	*3200*	*T J*	*ug/L*		*2.36*	*N/A*		*03/24/23 09:52*	*1*
Unknown	*370*	*T J*	*ug/L*		*2.41*	*N/A*		*03/24/23 09:52*	*1*
Unknown	*230*	*T J*	*ug/L*		*2.50*	*N/A*		*03/24/23 09:52*	*1*
Unknown	*260*	*T J*	*ug/L*		*3.90*	*N/A*		*03/24/23 09:52*	*1*
Unknown	*280*	*T J*	*ug/L*		*4.11*	*N/A*		*03/24/23 09:52*	*1*
Unknown	*1100*	*T J*	*ug/L*		*4.45*	*N/A*		*03/24/23 09:52*	*1*
Unknown	*380*	*T J*	*ug/L*		*5.10*	*N/A*		*03/24/23 09:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 132*		*03/24/23 09:52*	*1*
4-Bromofluorobenzene (Surr)	*92*		*76 - 120*		*03/24/23 09:52*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*03/24/23 09:52*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/24/23 09:52*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.7**		0.38	0.26	ug/L		03/24/23 09:02	03/24/23 21:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*21 - 120*	*03/24/23 09:02*	*03/24/23 21:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*80*		*58 - 135*	*03/24/23 09:02*	*03/24/23 21:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95**		10	3.6	mg/L			03/27/23 13:30	10

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: MW-5

Date Collected: 03/21/23 10:24
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-2

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	18		2.0	0.58	mg/L		03/23/23 08:41	03/27/23 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	2.7		0.075	0.032	mg/L		04/03/23 10:18	04/03/23 12:44	1
Chemical Oxygen Demand (EPA 410.4)	100		100	14	mg/L		03/24/23 15:53	03/24/23 17:28	1
Alkalinity, Total (As CaCO3) (SM 2320B)	470		5.0	2.2	mg/L			03/31/23 15:59	1
Total Dissolved Solids (SM 2540C)	2400		20	17	mg/L			03/27/23 13:07	1
Total Organic Carbon (SM 5310D)	14		10	5.3	mg/L			04/05/23 06:19	20

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: MW-13R
Date Collected: 03/21/23 08:41
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/24/23 10:18	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/24/23 10:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/24/23 10:18	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/24/23 10:18	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/24/23 10:18	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/24/23 10:18	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/24/23 10:18	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/24/23 10:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/24/23 10:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/24/23 10:18	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/24/23 10:18	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/24/23 10:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/24/23 10:18	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/24/23 10:18	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/24/23 10:18	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/24/23 10:18	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/24/23 10:18	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/24/23 10:18	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/24/23 10:18	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/24/23 10:18	1
2-Hexanone	ND		6.0	2.0	ug/L			03/24/23 10:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/24/23 10:18	1
Acetone	ND		8.0	3.6	ug/L			03/24/23 10:18	1
Acrolein	ND		4.0	3.6	ug/L			03/24/23 10:18	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/24/23 10:18	1
Allyl chloride	ND		2.0	0.47	ug/L			03/24/23 10:18	1
Benzene	ND		0.50	0.14	ug/L			03/24/23 10:18	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/24/23 10:18	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/24/23 10:18	1
Bromoform	ND		0.50	0.28	ug/L			03/24/23 10:18	1
Bromomethane	ND		2.0	1.9	ug/L			03/24/23 10:18	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/24/23 10:18	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/24/23 10:18	1
Carbon disulfide	**0.99**	**J**	1.0	0.32	ug/L			03/24/23 10:18	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/24/23 10:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/24/23 10:18	1
Chloroethane	ND		0.50	0.38	ug/L			03/24/23 10:18	1
Chloroform	ND		0.50	0.17	ug/L			03/24/23 10:18	1
Chloromethane	ND		1.0	0.65	ug/L			03/24/23 10:18	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/24/23 10:18	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/24/23 10:18	1
Dibromomethane	ND		0.50	0.16	ug/L			03/24/23 10:18	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/24/23 10:18	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/24/23 10:18	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/24/23 10:18	1
Iodomethane	ND		25	8.7	ug/L			03/24/23 10:18	1
Isobutyl alcohol	ND		50	35	ug/L			03/24/23 10:18	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/24/23 10:18	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/24/23 10:18	1

Client Sample ID: MW-13R

Date Collected: 03/21/23 08:41
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/24/23 10:18	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/24/23 10:18	1
Naphthalene	ND		1.0	0.55	ug/L			03/24/23 10:18	1
o-Xylene	ND		0.50	0.18	ug/L			03/24/23 10:18	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/24/23 10:18	1
Propionitrile	ND		5.0	3.1	ug/L			03/24/23 10:18	1
Styrene	ND		0.50	0.27	ug/L			03/24/23 10:18	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/24/23 10:18	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/24/23 10:18	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/24/23 10:18	1
t-Butanol	ND		5.0	3.1	ug/L			03/24/23 10:18	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/24/23 10:18	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/24/23 10:18	1
Toluene	ND		0.50	0.14	ug/L			03/24/23 10:18	1
Trichloroethene	ND		0.50	0.15	ug/L			03/24/23 10:18	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/24/23 10:18	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/24/23 10:18	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/24/23 10:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Ethene, 1,1-difluoro-	*650*	*T J N*	*ug/L*		*2.01*	*75-38-7*		*03/24/23 10:18*	*1*
Propane, 2,2-dimethyl-	*6200*	*T J N*	*ug/L*		*2.15*	*463-82-1*		*03/24/23 10:18*	*1*
Methanethiol	*31000*	*T J N*	*ug/L*		*2.35*	*74-93-1*		*03/24/23 10:18*	*1*
Methanethiol	*380*	*T J N*	*ug/L*		*2.48*	*74-93-1*		*03/24/23 10:18*	*1*
Ethanethiol	*920*	*T J N*	*ug/L*		*3.42*	*75-08-1*		*03/24/23 10:18*	*1*
Dimethyl sulfide	*3300*	*T J N*	*ug/L*		*3.75*	*75-18-3*		*03/24/23 10:18*	*1*
Dimethyl sulfide	*330*	*T J N*	*ug/L*		*3.82*	*75-18-3*		*03/24/23 10:18*	*1*
Unknown	*340*	*T J*	*ug/L*		*4.13*	*N/A*		*03/24/23 10:18*	*1*
Unknown	*1000*	*T J*	*ug/L*		*4.46*	*N/A*		*03/24/23 10:18*	*1*
Unknown	*310*	*T J*	*ug/L*		*5.17*	*N/A*		*03/24/23 10:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 132*		*03/24/23 10:18*	*1*
4-Bromofluorobenzene (Surr)	*86*		*76 - 120*		*03/24/23 10:18*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*03/24/23 10:18*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/24/23 10:18*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**6.3**		0.38	0.26	ug/L		03/24/23 09:02	03/24/23 22:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*21 - 120*	*03/24/23 09:02*	*03/24/23 22:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*83*		*58 - 135*	*03/24/23 09:02*	*03/24/23 22:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		10	3.6	mg/L			03/27/23 13:47	10

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: MW-13R

Date Collected: 03/21/23 08:41
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-3

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	38		2.0	0.58	mg/L		03/23/23 08:41	03/27/23 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	13		0.75	0.32	mg/L		04/03/23 10:18	04/03/23 12:41	10
Chemical Oxygen Demand (EPA 410.4)	610		100	14	mg/L		03/24/23 15:53	03/24/23 17:28	1
Alkalinity, Total (As CaCO3) (SM 2320B)	630		5.0	2.2	mg/L			03/31/23 16:05	1
Total Dissolved Solids (SM 2540C)	2100		20	17	mg/L			03/27/23 13:07	1
Total Organic Carbon (SM 5310D)	52		10	5.3	mg/L			04/05/23 06:51	20

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: DW-2
Date Collected: 03/21/23 11:31
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/24/23 07:13	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/24/23 07:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/24/23 07:13	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/24/23 07:13	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/24/23 07:13	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/24/23 07:13	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/24/23 07:13	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/24/23 07:13	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/24/23 07:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/24/23 07:13	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/24/23 07:13	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/24/23 07:13	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/24/23 07:13	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/24/23 07:13	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/24/23 07:13	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/24/23 07:13	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/24/23 07:13	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/24/23 07:13	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/24/23 07:13	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/24/23 07:13	1
2-Hexanone	ND		6.0	2.0	ug/L			03/24/23 07:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/24/23 07:13	1
Acetone	ND		8.0	3.6	ug/L			03/24/23 07:13	1
Acrolein	ND		4.0	3.6	ug/L			03/24/23 07:13	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/24/23 07:13	1
Allyl chloride	ND		2.0	0.47	ug/L			03/24/23 07:13	1
Benzene	ND		0.50	0.14	ug/L			03/24/23 07:13	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/24/23 07:13	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/24/23 07:13	1
Bromoform	ND		0.50	0.28	ug/L			03/24/23 07:13	1
Bromomethane	ND		2.0	1.9	ug/L			03/24/23 07:13	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/24/23 07:13	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/24/23 07:13	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/24/23 07:13	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/24/23 07:13	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/24/23 07:13	1
Chloroethane	ND		0.50	0.38	ug/L			03/24/23 07:13	1
Chloroform	ND		0.50	0.17	ug/L			03/24/23 07:13	1
Chloromethane	ND		1.0	0.65	ug/L			03/24/23 07:13	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/24/23 07:13	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/24/23 07:13	1
Dibromomethane	ND		0.50	0.16	ug/L			03/24/23 07:13	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/24/23 07:13	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/24/23 07:13	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/24/23 07:13	1
Iodomethane	ND		25	8.7	ug/L			03/24/23 07:13	1
Isobutyl alcohol	ND		50	35	ug/L			03/24/23 07:13	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/24/23 07:13	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/24/23 07:13	1

Client Sample ID: DW-2

Date Collected: 03/21/23 11:31
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-4

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/24/23 07:13	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/24/23 07:13	1
Naphthalene	ND		1.0	0.55	ug/L			03/24/23 07:13	1
o-Xylene	ND		0.50	0.18	ug/L			03/24/23 07:13	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/24/23 07:13	1
Propionitrile	ND		5.0	3.1	ug/L			03/24/23 07:13	1
Styrene	ND		0.50	0.27	ug/L			03/24/23 07:13	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/24/23 07:13	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/24/23 07:13	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/24/23 07:13	1
t-Butanol	ND		5.0	3.1	ug/L			03/24/23 07:13	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/24/23 07:13	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/24/23 07:13	1
Toluene	ND		0.50	0.14	ug/L			03/24/23 07:13	1
Trichloroethene	ND		0.50	0.15	ug/L			03/24/23 07:13	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/24/23 07:13	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/24/23 07:13	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/24/23 07:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/24/23 07:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 132*		*03/24/23 07:13*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*03/24/23 07:13*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*03/24/23 07:13*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*03/24/23 07:13*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.37	0.25	ug/L		03/24/23 09:02	03/24/23 22:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*23*		*21 - 120*	*03/24/23 09:02*	*03/24/23 22:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*79*		*58 - 135*	*03/24/23 09:02*	*03/24/23 22:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		10	3.6	mg/L			03/27/23 13:26	10

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**4.0**		2.0	0.58	mg/L		03/23/23 08:41	03/27/23 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**3.0**		0.075	0.032	mg/L		04/03/23 10:18	04/03/23 12:45	1
Chemical Oxygen Demand (EPA 410.4)	**47**	**J**	100	14	mg/L		03/24/23 15:53	03/24/23 17:28	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: DW-2
Date Collected: 03/21/23 11:31
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	360		5.0	2.2	mg/L			03/31/23 16:12	1
Total Dissolved Solids (SM 2540C)	1900		20	17	mg/L			03/27/23 13:07	1
Total Organic Carbon (SM 5310D)	1.8		0.50	0.26	mg/L			04/05/23 07:11	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: DW-3
Date Collected: 03/21/23 09:05
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/24/23 07:39	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/24/23 07:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/24/23 07:39	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/24/23 07:39	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/24/23 07:39	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/24/23 07:39	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/24/23 07:39	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/24/23 07:39	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/24/23 07:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/24/23 07:39	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/24/23 07:39	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/24/23 07:39	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/24/23 07:39	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/24/23 07:39	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/24/23 07:39	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/24/23 07:39	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/24/23 07:39	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/24/23 07:39	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/24/23 07:39	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/24/23 07:39	1
2-Hexanone	ND		6.0	2.0	ug/L			03/24/23 07:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/24/23 07:39	1
Acetone	ND		8.0	3.6	ug/L			03/24/23 07:39	1
Acrolein	ND		4.0	3.6	ug/L			03/24/23 07:39	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/24/23 07:39	1
Allyl chloride	ND		2.0	0.47	ug/L			03/24/23 07:39	1
Benzene	ND		0.50	0.14	ug/L			03/24/23 07:39	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/24/23 07:39	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/24/23 07:39	1
Bromoform	ND		0.50	0.28	ug/L			03/24/23 07:39	1
Bromomethane	ND		2.0	1.9	ug/L			03/24/23 07:39	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/24/23 07:39	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/24/23 07:39	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/24/23 07:39	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/24/23 07:39	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/24/23 07:39	1
Chloroethane	ND		0.50	0.38	ug/L			03/24/23 07:39	1
Chloroform	ND		0.50	0.17	ug/L			03/24/23 07:39	1
Chloromethane	ND		1.0	0.65	ug/L			03/24/23 07:39	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/24/23 07:39	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/24/23 07:39	1
Dibromomethane	ND		0.50	0.16	ug/L			03/24/23 07:39	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/24/23 07:39	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/24/23 07:39	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/24/23 07:39	1
Iodomethane	ND		25	8.7	ug/L			03/24/23 07:39	1
Isobutyl alcohol	ND		50	35	ug/L			03/24/23 07:39	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/24/23 07:39	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/24/23 07:39	1

Client Sample ID: DW-3

Date Collected: 03/21/23 09:05
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-5

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/24/23 07:39	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/24/23 07:39	1
Naphthalene	ND		1.0	0.55	ug/L			03/24/23 07:39	1
o-Xylene	ND		0.50	0.18	ug/L			03/24/23 07:39	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/24/23 07:39	1
Propionitrile	ND		5.0	3.1	ug/L			03/24/23 07:39	1
Styrene	ND		0.50	0.27	ug/L			03/24/23 07:39	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/24/23 07:39	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/24/23 07:39	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/24/23 07:39	1
t-Butanol	ND		5.0	3.1	ug/L			03/24/23 07:39	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/24/23 07:39	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/24/23 07:39	1
Toluene	ND		0.50	0.14	ug/L			03/24/23 07:39	1
Trichloroethene	ND		0.50	0.15	ug/L			03/24/23 07:39	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/24/23 07:39	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/24/23 07:39	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/24/23 07:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*120*	*T J*	*ug/L*		*2.03*	*N/A*		*03/24/23 07:39*	*1*
Unknown	*120*	*T J*	*ug/L*		*2.05*	*N/A*		*03/24/23 07:39*	*1*
Unknown	*1500*	*T J*	*ug/L*		*2.36*	*N/A*		*03/24/23 07:39*	*1*
Unknown	*110*	*T J*	*ug/L*		*2.70*	*N/A*		*03/24/23 07:39*	*1*
Unknown	*140*	*T J*	*ug/L*		*2.95*	*N/A*		*03/24/23 07:39*	*1*
Unknown	*130*	*T J*	*ug/L*		*3.74*	*N/A*		*03/24/23 07:39*	*1*
Unknown	*120*	*T J*	*ug/L*		*4.18*	*N/A*		*03/24/23 07:39*	*1*
Unknown	*600*	*T J*	*ug/L*		*4.45*	*N/A*		*03/24/23 07:39*	*1*
Unknown	*150*	*T J*	*ug/L*		*4.96*	*N/A*		*03/24/23 07:39*	*1*
Unknown	*150*	*T J*	*ug/L*		*5.33*	*N/A*		*03/24/23 07:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 132*		*03/24/23 07:39*	*1*
4-Bromofluorobenzene (Surr)	*87*		*76 - 120*		*03/24/23 07:39*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*03/24/23 07:39*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/24/23 07:39*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.38	0.26	ug/L		03/24/23 09:02	03/24/23 22:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*21 - 120*	*03/24/23 09:02*	*03/24/23 22:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*87*		*58 - 135*	*03/24/23 09:02*	*03/24/23 22:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		10	3.6	mg/L			03/27/23 13:43	10

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: DW-3

Date Collected: 03/21/23 09:05
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-5

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	8.9		2.0	0.58	mg/L		03/23/23 08:41	03/27/23 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	0.53		0.075	0.032	mg/L		04/03/23 10:18	04/03/23 12:47	1
Chemical Oxygen Demand (EPA 410.4)	17	J	100	14	mg/L		03/24/23 15:53	03/24/23 17:28	1
Alkalinity, Total (As CaCO3) (SM 2320B)	140		5.0	2.2	mg/L			03/31/23 16:19	1
Total Dissolved Solids (SM 2540C)	1900		20	17	mg/L			03/27/23 13:07	1
Total Organic Carbon (SM 5310D)	0.63		0.50	0.26	mg/L			04/05/23 07:33	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: DW-5
Date Collected: 03/21/23 11:14
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/24/23 08:06	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/24/23 08:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/24/23 08:06	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/24/23 08:06	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/24/23 08:06	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/24/23 08:06	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/24/23 08:06	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/24/23 08:06	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/24/23 08:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/24/23 08:06	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/24/23 08:06	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/24/23 08:06	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/24/23 08:06	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/24/23 08:06	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/24/23 08:06	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/24/23 08:06	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/24/23 08:06	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/24/23 08:06	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/24/23 08:06	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/24/23 08:06	1
2-Hexanone	ND		6.0	2.0	ug/L			03/24/23 08:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/24/23 08:06	1
Acetone	ND		8.0	3.6	ug/L			03/24/23 08:06	1
Acrolein	ND		4.0	3.6	ug/L			03/24/23 08:06	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/24/23 08:06	1
Allyl chloride	ND		2.0	0.47	ug/L			03/24/23 08:06	1
Benzene	ND		0.50	0.14	ug/L			03/24/23 08:06	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/24/23 08:06	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/24/23 08:06	1
Bromoform	ND		0.50	0.28	ug/L			03/24/23 08:06	1
Bromomethane	ND		2.0	1.9	ug/L			03/24/23 08:06	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/24/23 08:06	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/24/23 08:06	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/24/23 08:06	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/24/23 08:06	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/24/23 08:06	1
Chloroethane	ND		0.50	0.38	ug/L			03/24/23 08:06	1
Chloroform	ND		0.50	0.17	ug/L			03/24/23 08:06	1
Chloromethane	ND		1.0	0.65	ug/L			03/24/23 08:06	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/24/23 08:06	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/24/23 08:06	1
Dibromomethane	ND		0.50	0.16	ug/L			03/24/23 08:06	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/24/23 08:06	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/24/23 08:06	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/24/23 08:06	1
Iodomethane	ND		25	8.7	ug/L			03/24/23 08:06	1
Isobutyl alcohol	**66**		50	35	ug/L			03/24/23 08:06	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/24/23 08:06	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/24/23 08:06	1

Client Sample ID: DW-5

Date Collected: 03/21/23 11:14
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-6

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/24/23 08:06	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/24/23 08:06	1
Naphthalene	ND		1.0	0.55	ug/L			03/24/23 08:06	1
o-Xylene	ND		0.50	0.18	ug/L			03/24/23 08:06	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/24/23 08:06	1
Propionitrile	ND		5.0	3.1	ug/L			03/24/23 08:06	1
Styrene	ND		0.50	0.27	ug/L			03/24/23 08:06	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/24/23 08:06	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/24/23 08:06	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/24/23 08:06	1
t-Butanol	ND		5.0	3.1	ug/L			03/24/23 08:06	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/24/23 08:06	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/24/23 08:06	1
Toluene	**0.32**	**J**	0.50	0.14	ug/L			03/24/23 08:06	1
Trichloroethene	ND		0.50	0.15	ug/L			03/24/23 08:06	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/24/23 08:06	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/24/23 08:06	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/24/23 08:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Propane, 2,2-dimethyl-	*11*	*T J N*	*ug/L*		*2.16*	*463-82-1*		*03/24/23 08:06*	*1*
Butane, 2,2-dimethyl-	*8.5*	*T J N*	*ug/L*		*3.60*	*75-83-2*		*03/24/23 08:06*	*1*
Pentane, 2,3-dimethyl-	*6.7*	*T J N*	*ug/L*		*6.96*	*565-59-3*		*03/24/23 08:06*	*1*
1H-Indene, 2,3-dihydro-1,1-dimethyl-	*8.0*	*T J N*	*ug/L*		*15.55*	*4912-92-9*		*03/24/23 08:06*	*1*
Benzene, 1,2,3,5-tetramethyl-	*29*	*T J N*	*ug/L*		*15.68*	*527-53-7*		*03/24/23 08:06*	*1*
Benzene, pentamethyl-	*8.4*	*T J N*	*ug/L*		*16.75*	*700-12-9*		*03/24/23 08:06*	*1*
Benzene, ethyl-1,2,4-trimethyl-	*6.8*	*T J N*	*ug/L*		*16.92*	*54120-62-6*		*03/24/23 08:06*	*1*
1H-Indene, 2,3-dihydro-1,1,6-trimethyl-	*6.7*	*T J N*	*ug/L*		*17.04*	*14276-95-0*		*03/24/23 08:06*	*1*
1H-Indene, 2,3-dihydro-4,7-dimethyl-	*8.9*	*T J N*	*ug/L*		*17.76*	*6682-71-9*		*03/24/23 08:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 132*		*03/24/23 08:06*	*1*
4-Bromofluorobenzene (Surr)	*87*		*76 - 120*		*03/24/23 08:06*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*03/24/23 08:06*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*03/24/23 08:06*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.38	0.26	ug/L		03/24/23 09:02	03/24/23 22:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*21 - 120*	*03/24/23 09:02*	*03/24/23 22:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*77*		*58 - 135*	*03/24/23 09:02*	*03/24/23 22:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18**		10	3.6	mg/L			03/27/23 14:00	10

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: DW-5

Date Collected: 03/21/23 11:14
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-6

Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.3	J	2.0	0.58	mg/L		03/23/23 08:41	03/27/23 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	0.22		0.075	0.032	mg/L		04/03/23 10:18	04/03/23 12:48	1
Chemical Oxygen Demand (EPA 410.4)	64	J	100	14	mg/L		03/24/23 15:53	03/24/23 17:28	1
Alkalinity, Total (As CaCO3) (SM 2320B)	920		5.0	2.2	mg/L			03/23/23 19:47	1
Total Dissolved Solids (SM 2540C)	1100		20	17	mg/L			03/27/23 13:07	1
Total Organic Carbon (SM 5310D)	7.8		2.0	1.1	mg/L			04/05/23 07:55	4

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: PZ-4
Date Collected: 03/21/23 09:02
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/24/23 08:32	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/24/23 08:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/24/23 08:32	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/24/23 08:32	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/24/23 08:32	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/24/23 08:32	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/24/23 08:32	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/24/23 08:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/24/23 08:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/24/23 08:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/24/23 08:32	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/24/23 08:32	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/24/23 08:32	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/24/23 08:32	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/24/23 08:32	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/24/23 08:32	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/24/23 08:32	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/24/23 08:32	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/24/23 08:32	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/24/23 08:32	1
2-Hexanone	ND		6.0	2.0	ug/L			03/24/23 08:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/24/23 08:32	1
Acetone	ND		8.0	3.6	ug/L			03/24/23 08:32	1
Acrolein	ND		4.0	3.6	ug/L			03/24/23 08:32	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/24/23 08:32	1
Allyl chloride	ND		2.0	0.47	ug/L			03/24/23 08:32	1
Benzene	ND		0.50	0.14	ug/L			03/24/23 08:32	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/24/23 08:32	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/24/23 08:32	1
Bromoform	ND		0.50	0.28	ug/L			03/24/23 08:32	1
Bromomethane	ND		2.0	1.9	ug/L			03/24/23 08:32	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/24/23 08:32	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/24/23 08:32	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/24/23 08:32	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/24/23 08:32	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/24/23 08:32	1
Chloroethane	ND		0.50	0.38	ug/L			03/24/23 08:32	1
Chloroform	ND		0.50	0.17	ug/L			03/24/23 08:32	1
Chloromethane	ND		1.0	0.65	ug/L			03/24/23 08:32	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/24/23 08:32	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/24/23 08:32	1
Dibromomethane	ND		0.50	0.16	ug/L			03/24/23 08:32	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/24/23 08:32	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/24/23 08:32	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/24/23 08:32	1
Iodomethane	ND		25	8.7	ug/L			03/24/23 08:32	1
Isobutyl alcohol	ND		50	35	ug/L			03/24/23 08:32	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/24/23 08:32	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/24/23 08:32	1

Client Sample ID: PZ-4

Date Collected: 03/21/23 09:02
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-7

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/24/23 08:32	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/24/23 08:32	1
Naphthalene	ND		1.0	0.55	ug/L			03/24/23 08:32	1
o-Xylene	ND		0.50	0.18	ug/L			03/24/23 08:32	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/24/23 08:32	1
Propionitrile	ND		5.0	3.1	ug/L			03/24/23 08:32	1
Styrene	ND		0.50	0.27	ug/L			03/24/23 08:32	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/24/23 08:32	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/24/23 08:32	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/24/23 08:32	1
t-Butanol	ND		5.0	3.1	ug/L			03/24/23 08:32	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/24/23 08:32	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/24/23 08:32	1
Toluene	ND		0.50	0.14	ug/L			03/24/23 08:32	1
Trichloroethene	ND		0.50	0.15	ug/L			03/24/23 08:32	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/24/23 08:32	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/24/23 08:32	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/24/23 08:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/24/23 08:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 132*		*03/24/23 08:32*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*03/24/23 08:32*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*03/24/23 08:32*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/24/23 08:32*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.2**		0.38	0.26	ug/L		03/24/23 09:02	03/24/23 22:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*21 - 120*	*03/24/23 09:02*	*03/24/23 22:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*81*		*58 - 135*	*03/24/23 09:02*	*03/24/23 22:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.3**	**J**	10	3.6	mg/L			03/27/23 14:17	10

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**6.2**		2.0	0.58	mg/L		03/23/23 08:41	03/27/23 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**3.1**		0.075	0.032	mg/L		04/03/23 10:18	04/03/23 12:50	1
Chemical Oxygen Demand (EPA 410.4)	**31**	**J**	100	14	mg/L		03/24/23 15:53	03/24/23 17:28	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: PZ-4
Date Collected: 03/21/23 09:02
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-7
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	310		5.0	2.2	mg/L			03/23/23 19:53	1
Total Dissolved Solids (SM 2540C)	1900		20	17	mg/L			03/27/23 13:07	1
Total Organic Carbon (SM 5310D)	1.9		0.50	0.26	mg/L			04/05/23 08:18	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: Field Blank
Date Collected: 03/21/23 00:00
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/24/23 08:59	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/24/23 08:59	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/24/23 08:59	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/24/23 08:59	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/24/23 08:59	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/24/23 08:59	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/24/23 08:59	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/24/23 08:59	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/24/23 08:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/24/23 08:59	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/24/23 08:59	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/24/23 08:59	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/24/23 08:59	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/24/23 08:59	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/24/23 08:59	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/24/23 08:59	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/24/23 08:59	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/24/23 08:59	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/24/23 08:59	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/24/23 08:59	1
2-Hexanone	ND		6.0	2.0	ug/L			03/24/23 08:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/24/23 08:59	1
Acetone	ND		8.0	3.6	ug/L			03/24/23 08:59	1
Acrolein	ND		4.0	3.6	ug/L			03/24/23 08:59	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/24/23 08:59	1
Allyl chloride	ND		2.0	0.47	ug/L			03/24/23 08:59	1
Benzene	ND		0.50	0.14	ug/L			03/24/23 08:59	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/24/23 08:59	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/24/23 08:59	1
Bromoform	ND		0.50	0.28	ug/L			03/24/23 08:59	1
Bromomethane	ND		2.0	1.9	ug/L			03/24/23 08:59	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/24/23 08:59	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/24/23 08:59	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/24/23 08:59	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/24/23 08:59	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/24/23 08:59	1
Chloroethane	ND		0.50	0.38	ug/L			03/24/23 08:59	1
Chloroform	ND		0.50	0.17	ug/L			03/24/23 08:59	1
Chloromethane	ND		1.0	0.65	ug/L			03/24/23 08:59	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/24/23 08:59	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/24/23 08:59	1
Dibromomethane	ND		0.50	0.16	ug/L			03/24/23 08:59	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/24/23 08:59	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/24/23 08:59	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/24/23 08:59	1
Iodomethane	ND		25	8.7	ug/L			03/24/23 08:59	1
Isobutyl alcohol	ND		50	35	ug/L			03/24/23 08:59	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/24/23 08:59	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/24/23 08:59	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: Field Blank
Date Collected: 03/21/23 00:00
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/24/23 08:59	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/24/23 08:59	1
Naphthalene	ND		1.0	0.55	ug/L			03/24/23 08:59	1
o-Xylene	ND		0.50	0.18	ug/L			03/24/23 08:59	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/24/23 08:59	1
Propionitrile	ND		5.0	3.1	ug/L			03/24/23 08:59	1
Styrene	ND		0.50	0.27	ug/L			03/24/23 08:59	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/24/23 08:59	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/24/23 08:59	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/24/23 08:59	1
t-Butanol	ND		5.0	3.1	ug/L			03/24/23 08:59	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/24/23 08:59	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/24/23 08:59	1
Toluene	ND		0.50	0.14	ug/L			03/24/23 08:59	1
Trichloroethene	ND		0.50	0.15	ug/L			03/24/23 08:59	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/24/23 08:59	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/24/23 08:59	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/24/23 08:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*940*	*T J*	*ug/L*		*2.35*	*N/A*		*03/24/23 08:59*	*1*
Unknown	*75*	*T J*	*ug/L*		*2.49*	*N/A*		*03/24/23 08:59*	*1*
Unknown	*54*	*T J*	*ug/L*		*2.83*	*N/A*		*03/24/23 08:59*	*1*
Unknown	*66*	*T J*	*ug/L*		*2.89*	*N/A*		*03/24/23 08:59*	*1*
Unknown	*74*	*T J*	*ug/L*		*3.06*	*N/A*		*03/24/23 08:59*	*1*
Unknown	*62*	*T J*	*ug/L*		*3.15*	*N/A*		*03/24/23 08:59*	*1*
Unknown	*120*	*T J*	*ug/L*		*3.97*	*N/A*		*03/24/23 08:59*	*1*
Unknown	*120*	*T J*	*ug/L*		*4.79*	*N/A*		*03/24/23 08:59*	*1*
Unknown	*70*	*T J*	*ug/L*		*5.38*	*N/A*		*03/24/23 08:59*	*1*
Unknown	*54*	*T J*	*ug/L*		*5.52*	*N/A*		*03/24/23 08:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 132*		*03/24/23 08:59*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*03/24/23 08:59*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/24/23 08:59*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/24/23 08:59*	*1*

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: Trip Blank

Date Collected: 03/21/23 00:00
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-9

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/24/23 09:25	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/24/23 09:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/24/23 09:25	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/24/23 09:25	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/24/23 09:25	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/24/23 09:25	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/24/23 09:25	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/24/23 09:25	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/24/23 09:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/24/23 09:25	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/24/23 09:25	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/24/23 09:25	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/24/23 09:25	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/24/23 09:25	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/24/23 09:25	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/24/23 09:25	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/24/23 09:25	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/24/23 09:25	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/24/23 09:25	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/24/23 09:25	1
2-Hexanone	ND		6.0	2.0	ug/L			03/24/23 09:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/24/23 09:25	1
Acetone	ND		8.0	3.6	ug/L			03/24/23 09:25	1
Acrolein	ND		4.0	3.6	ug/L			03/24/23 09:25	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/24/23 09:25	1
Allyl chloride	ND		2.0	0.47	ug/L			03/24/23 09:25	1
Benzene	ND		0.50	0.14	ug/L			03/24/23 09:25	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/24/23 09:25	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/24/23 09:25	1
Bromoform	ND		0.50	0.28	ug/L			03/24/23 09:25	1
Bromomethane	ND		2.0	1.9	ug/L			03/24/23 09:25	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/24/23 09:25	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/24/23 09:25	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/24/23 09:25	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/24/23 09:25	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/24/23 09:25	1
Chloroethane	ND		0.50	0.38	ug/L			03/24/23 09:25	1
Chloroform	ND		0.50	0.17	ug/L			03/24/23 09:25	1
Chloromethane	ND		1.0	0.65	ug/L			03/24/23 09:25	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/24/23 09:25	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/24/23 09:25	1
Dibromomethane	ND		0.50	0.16	ug/L			03/24/23 09:25	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/24/23 09:25	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/24/23 09:25	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/24/23 09:25	1
Iodomethane	ND		25	8.7	ug/L			03/24/23 09:25	1
Isobutyl alcohol	ND		50	35	ug/L			03/24/23 09:25	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/24/23 09:25	1
Methyl methacrylate	ND		2.0	1.9	ug/L			03/24/23 09:25	1

Client Sample ID: Trip Blank
Date Collected: 03/21/23 00:00
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			03/24/23 09:25	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/24/23 09:25	1
Naphthalene	ND		1.0	0.55	ug/L			03/24/23 09:25	1
o-Xylene	ND		0.50	0.18	ug/L			03/24/23 09:25	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/24/23 09:25	1
Propionitrile	ND		5.0	3.1	ug/L			03/24/23 09:25	1
Styrene	ND		0.50	0.27	ug/L			03/24/23 09:25	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/24/23 09:25	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/24/23 09:25	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/24/23 09:25	1
t-Butanol	ND		5.0	3.1	ug/L			03/24/23 09:25	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/24/23 09:25	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/24/23 09:25	1
Toluene	ND		0.50	0.14	ug/L			03/24/23 09:25	1
Trichloroethene	ND		0.50	0.15	ug/L			03/24/23 09:25	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/24/23 09:25	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/24/23 09:25	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/24/23 09:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*300*	*T J*	*ug/L*		*2.01*	*N/A*		*03/24/23 09:25*	*1*
Unknown	*610*	*T J*	*ug/L*		*2.05*	*N/A*		*03/24/23 09:25*	*1*
2-Chloroethanol	*5000*	*T J N*	*ug/L*		*2.36*	*107-07-3*		*03/24/23 09:25*	*1*
Unknown	*260*	*T J*	*ug/L*		*2.72*	*N/A*		*03/24/23 09:25*	*1*
Unknown	*290*	*T J*	*ug/L*		*3.16*	*N/A*		*03/24/23 09:25*	*1*
Unknown	*870*	*T J*	*ug/L*		*3.51*	*N/A*		*03/24/23 09:25*	*1*
Unknown	*1900*	*T J*	*ug/L*		*4.46*	*N/A*		*03/24/23 09:25*	*1*
Unknown	*280*	*T J*	*ug/L*		*4.92*	*N/A*		*03/24/23 09:25*	*1*
Unknown	*340*	*T J*	*ug/L*		*5.32*	*N/A*		*03/24/23 09:25*	*1*
Unknown	*260*	*T J*	*ug/L*		*5.70*	*N/A*		*03/24/23 09:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 132*		*03/24/23 09:25*	*1*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*03/24/23 09:25*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/24/23 09:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/24/23 09:25*	*1*

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-132)	(76-120)	(80-120)	(80-120)
570-132118-1	MW-1	101	90	105	102
570-132118-2	MW-5	99	92	102	105
570-132118-3	MW-13R	99	86	106	102
570-132118-4	DW-2	101	90	105	104
570-132118-5	DW-3	99	87	102	101
570-132118-6	DW-5	98	87	104	103
570-132118-7	PZ-4	98	90	101	99
570-132118-8	Field Blank	101	91	103	96
570-132118-9	Trip Blank	101	89	103	100
LCS 570-314241/3	Lab Control Sample	95	98	97	99
LCSD 570-314241/4	Lab Control Sample Dup	102	98	99	100
MB 570-314241/6	Method Blank	95	91	101	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		NBZ
Lab Sample ID	Client Sample ID	(58-135)
570-132118-1	MW-1	77
570-132118-2	MW-5	80
570-132118-3	MW-13R	83
570-132118-4	DW-2	79
570-132118-5	DW-3	87
570-132118-6	DW-5	77
570-132118-7	PZ-4	81
LCS 570-314427/2-A	Lab Control Sample	72
LCSD 570-314427/3-A	Lab Control Sample Dup	69
MB 570-314427/1-A	Method Blank	64

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

Isotope Dilution Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DXE (21-120)						
570-132118-1	MW-1	27						
570-132118-2	MW-5	27						
570-132118-3	MW-13R	27						
570-132118-4	DW-2	23						
570-132118-5	DW-3	27						
570-132118-6	DW-5	28						
570-132118-7	PZ-4	27						
LCS 570-314427/2-A	Lab Control Sample	34						
LCSD 570-314427/3-A	Lab Control Sample Dup	33						
MB 570-314427/1-A	Method Blank	36						

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-314241/6
Matrix: Water
Analysis Batch: 314241

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/24/23 01:29	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/24/23 01:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			03/24/23 01:29	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			03/24/23 01:29	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			03/24/23 01:29	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			03/24/23 01:29	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			03/24/23 01:29	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			03/24/23 01:29	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			03/24/23 01:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			03/24/23 01:29	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			03/24/23 01:29	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			03/24/23 01:29	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			03/24/23 01:29	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			03/24/23 01:29	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			03/24/23 01:29	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			03/24/23 01:29	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			03/24/23 01:29	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			03/24/23 01:29	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			03/24/23 01:29	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			03/24/23 01:29	1
2-Hexanone	ND		6.0	2.0	ug/L			03/24/23 01:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			03/24/23 01:29	1
Acetone	ND		8.0	3.6	ug/L			03/24/23 01:29	1
Acrolein	ND		4.0	3.6	ug/L			03/24/23 01:29	1
Acrylonitrile	ND		5.0	2.0	ug/L			03/24/23 01:29	1
Allyl chloride	ND		2.0	0.47	ug/L			03/24/23 01:29	1
Benzene	ND		0.50	0.14	ug/L			03/24/23 01:29	1
Bromochloromethane	ND		1.0	0.27	ug/L			03/24/23 01:29	1
Bromodichloromethane	ND		0.50	0.15	ug/L			03/24/23 01:29	1
Bromoform	ND		0.50	0.28	ug/L			03/24/23 01:29	1
Bromomethane	ND		2.0	1.9	ug/L			03/24/23 01:29	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			03/24/23 01:29	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			03/24/23 01:29	1
Carbon disulfide	ND		1.0	0.32	ug/L			03/24/23 01:29	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			03/24/23 01:29	1
Chlorobenzene	ND		0.50	0.12	ug/L			03/24/23 01:29	1
Chloroethane	ND		0.50	0.38	ug/L			03/24/23 01:29	1
Chloroform	ND		0.50	0.17	ug/L			03/24/23 01:29	1
Chloromethane	ND		1.0	0.65	ug/L			03/24/23 01:29	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			03/24/23 01:29	1
Dibromochloromethane	ND		0.50	0.21	ug/L			03/24/23 01:29	1
Dibromomethane	ND		0.50	0.16	ug/L			03/24/23 01:29	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			03/24/23 01:29	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			03/24/23 01:29	1
Ethylbenzene	ND		0.50	0.16	ug/L			03/24/23 01:29	1
Iodomethane	ND		25	8.7	ug/L			03/24/23 01:29	1
Isobutyl alcohol	ND		50	35	ug/L			03/24/23 01:29	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			03/24/23 01:29	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-314241/6
Matrix: Water
Analysis Batch: 314241

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	ND		2.0	1.9	ug/L			03/24/23 01:29	1
Methylene Chloride	ND		1.0	0.40	ug/L			03/24/23 01:29	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			03/24/23 01:29	1
Naphthalene	ND		1.0	0.55	ug/L			03/24/23 01:29	1
o-Xylene	ND		0.50	0.18	ug/L			03/24/23 01:29	1
m,p-Xylene	ND		1.0	0.39	ug/L			03/24/23 01:29	1
Propionitrile	ND		5.0	3.1	ug/L			03/24/23 01:29	1
Styrene	ND		0.50	0.27	ug/L			03/24/23 01:29	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			03/24/23 01:29	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			03/24/23 01:29	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			03/24/23 01:29	1
t-Butanol	ND		5.0	3.1	ug/L			03/24/23 01:29	1
Tetrachloroethene	ND		0.50	0.16	ug/L			03/24/23 01:29	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			03/24/23 01:29	1
Toluene	ND		0.50	0.14	ug/L			03/24/23 01:29	1
Trichloroethene	ND		0.50	0.15	ug/L			03/24/23 01:29	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			03/24/23 01:29	1
Vinyl acetate	ND		5.0	3.2	ug/L			03/24/23 01:29	1
Vinyl chloride	ND		0.50	0.23	ug/L			03/24/23 01:29	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*03/24/23 01:29*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 132*		*03/24/23 01:29*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*03/24/23 01:29*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*03/24/23 01:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/24/23 01:29*	*1*

Lab Sample ID: LCS 570-314241/3
Matrix: Water
Analysis Batch: 314241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	10.6		ug/L		106	80 - 125
1,1,1-Trichloroethane	10.0	9.50		ug/L		95	75 - 121
1,1,2,2-Tetrachloroethane	10.0	10.5		ug/L		105	80 - 120
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	80 - 121
1,1-Dichloroethane	10.0	9.75		ug/L		97	80 - 120
1,1-Dichloroethene	10.0	9.94		ug/L		99	80 - 126
1,1-Dichloropropene	10.0	9.60		ug/L		96	72 - 122
1,2,3-Trichloropropane	10.0	9.60		ug/L		96	75 - 127
1,2,4-Trichlorobenzene	10.0	10.5		ug/L		105	80 - 124
1,2-Dibromo-3-Chloropropane	10.0	9.60		ug/L		96	63 - 123
1,2-Dibromoethane (EDB)	10.0	9.88		ug/L		99	80 - 125
1,2-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
1,2-Dichloroethane	10.0	9.90		ug/L		99	76 - 130
1,2-Dichloropropane	10.0	9.85		ug/L		99	74 - 124

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-314241/3
Matrix: Water
Analysis Batch: 314241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120
1,3-Dichloropropane	10.0	10.5		ug/L		105	80 - 121
1,4-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120
2,2-Dichloropropane	10.0	9.57		ug/L		96	79 - 131
2-Butanone (MEK)	10.0	8.73		ug/L		87	48 - 145
2-Chloroethyl vinyl ether	10.0	8.22		ug/L		82	20 - 120
2-Hexanone	10.0	9.56		ug/L		96	50 - 149
4-Methyl-2-pentanone (MIBK)	10.0	8.85		ug/L		88	63 - 120
Acetone	10.0	9.30		ug/L		93	45 - 139
Acrolein	20.0	16.7		ug/L		84	71 - 180
Acrylonitrile	10.0	10.5		ug/L		105	57 - 142
Allyl chloride	10.0	9.15		ug/L		92	62 - 139
Benzene	10.0	10.0		ug/L		100	80 - 120
Bromochloromethane	10.0	10.3		ug/L		103	80 - 120
Bromodichloromethane	10.0	10.2		ug/L		102	73 - 131
Bromoform	10.0	10.9		ug/L		109	76 - 124
Bromomethane	10.0	7.78		ug/L		78	26 - 180
cis-1,2-Dichloroethene	10.0	9.93		ug/L		99	80 - 120
cis-1,3-Dichloropropene	10.0	9.17		ug/L		92	76 - 123
Carbon disulfide	10.0	9.57		ug/L		96	75 - 123
Carbon tetrachloride	10.0	9.65		ug/L		96	61 - 139
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
Chloroethane	10.0	8.22		ug/L		82	54 - 150
Chloroform	10.0	9.28		ug/L		93	80 - 120
Chloromethane	10.0	8.25		ug/L		83	28 - 151
2-Chloro-1,3-butadiene	10.0	9.54		ug/L		95	66 - 132
Dibromochloromethane	10.0	10.5		ug/L		105	74 - 136
Dibromomethane	10.0	10.3		ug/L		103	80 - 122
Dichlorodifluoromethane	10.0	7.66		ug/L		77	27 - 154
Ethyl methacrylate	10.0	9.03		ug/L		90	67 - 120
Ethylbenzene	10.0	10.5		ug/L		105	80 - 126
Iodomethane	50.0	45.0		ug/L		90	54 - 144
Isobutyl alcohol	50.0	68.2		ug/L		136	20 - 180
Methylacrylonitrile	10.0	9.82		ug/L		98	42 - 150
Methyl methacrylate	10.0	8.98		ug/L		90	66 - 126
Methylene Chloride	10.0	9.51		ug/L		95	80 - 120
Methyl tert-butyl ether	10.0	9.44		ug/L		94	69 - 128
Naphthalene	10.0	9.02		ug/L		90	70 - 130
o-Xylene	10.0	10.2		ug/L		102	80 - 124
m,p-Xylene	20.0	20.9		ug/L		105	80 - 123
Propionitrile	10.0	8.97		ug/L		90	58 - 145
Styrene	10.0	10.4		ug/L		104	80 - 121
trans-1,2-Dichloroethene	10.0	9.55		ug/L		96	79 - 120
trans-1,3-Dichloropropene	10.0	9.40		ug/L		94	80 - 126
trans-1,4-Dichloro-2-butene	10.0	9.19		ug/L		92	54 - 146
t-Butanol	50.0	58.9		ug/L		118	68 - 133
Tetrachloroethene	10.0	10.3		ug/L		103	80 - 125
Tetrahydrofuran	10.0	7.52		ug/L		75	32 - 152
Toluene	10.0	10.1		ug/L		101	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-314241/3
Matrix: Water
Analysis Batch: 314241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			10.0	9.87		ug/L		99	77 - 124		
Trichlorofluoromethane			10.0	8.53		ug/L		85	41 - 163		
Vinyl acetate			10.0	8.34		ug/L		83	61 - 126		
Vinyl chloride			10.0	8.44		ug/L		84	50 - 160		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 132*
4-Bromofluorobenzene (Surr)	*98*		*76 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 570-314241/4
Matrix: Water
Analysis Batch: 314241

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			10.0	10.9		ug/L		109	80 - 125	3	20
1,1,1-Trichloroethane			10.0	9.99		ug/L		100	75 - 121	5	20
1,1,2,2-Tetrachloroethane			10.0	10.0		ug/L		100	80 - 120	4	20
1,1,2-Trichloroethane			10.0	10.7		ug/L		107	80 - 121	3	20
1,1-Dichloroethane			10.0	10.2		ug/L		102	80 - 120	4	20
1,1-Dichloroethene			10.0	10.6		ug/L		106	80 - 126	6	21
1,1-Dichloropropene			10.0	9.94		ug/L		99	72 - 122	4	20
1,2,3-Trichloropropane			10.0	9.31		ug/L		93	75 - 127	3	20
1,2,4-Trichlorobenzene			10.0	10.3		ug/L		103	80 - 124	2	20
1,2-Dibromo-3-Chloropropane			10.0	9.48		ug/L		95	63 - 123	1	20
1,2-Dibromoethane (EDB)			10.0	9.86		ug/L		99	80 - 125	0	20
1,2-Dichlorobenzene			10.0	10.7		ug/L		107	80 - 120	1	20
1,2-Dichloroethane			10.0	10.3		ug/L		103	76 - 130	4	20
1,2-Dichloropropane			10.0	10.3		ug/L		103	74 - 124	4	20
1,3-Dichlorobenzene			10.0	10.5		ug/L		105	80 - 120	1	20
1,3-Dichloropropane			10.0	10.3		ug/L		103	80 - 121	2	20
1,4-Dichlorobenzene			10.0	10.2		ug/L		102	80 - 120	1	20
2,2-Dichloropropane			10.0	9.95		ug/L		99	79 - 131	4	20
2-Butanone (MEK)			10.0	8.07		ug/L		81	48 - 145	8	30
2-Chloroethyl vinyl ether			10.0	7.89		ug/L		79	20 - 120	4	30
2-Hexanone			10.0	7.98		ug/L		80	50 - 149	18	29
4-Methyl-2-pentanone (MIBK)			10.0	8.34		ug/L		83	63 - 120	6	20
Acetone			10.0	9.71		ug/L		97	45 - 139	4	30
Acrolein			20.0	17.4		ug/L		87	71 - 180	4	26
Acrylonitrile			10.0	11.0		ug/L		110	57 - 142	5	20
Allyl chloride			10.0	9.18		ug/L		92	62 - 139	0	30
Benzene			10.0	10.5		ug/L		105	80 - 120	4	20
Bromochloromethane			10.0	10.6		ug/L		106	80 - 120	4	20
Bromodichloromethane			10.0	10.6		ug/L		106	73 - 131	3	20
Bromoform			10.0	10.3		ug/L		103	76 - 124	6	20
Bromomethane			10.0	7.71		ug/L		77	26 - 180	1	20
cis-1,2-Dichloroethene			10.0	10.2		ug/L		102	80 - 120	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-314241/4
Matrix: Water
Analysis Batch: 314241

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			10.0	9.69		ug/L		97	76 - 123	6	20
Carbon disulfide			10.0	10.1		ug/L		101	75 - 123	6	20
Carbon tetrachloride			10.0	10.1		ug/L		101	61 - 139	4	20
Chlorobenzene			10.0	10.3		ug/L		103	80 - 120	1	20
Chloroethane			10.0	8.72		ug/L		87	54 - 150	6	25
Chloroform			10.0	9.72		ug/L		97	80 - 120	5	20
Chloromethane			10.0	8.53		ug/L		85	28 - 151	3	20
2-Chloro-1,3-butadiene			10.0	10.2		ug/L		102	66 - 132	7	20
Dibromochloromethane			10.0	10.6		ug/L		106	74 - 136	1	20
Dibromomethane			10.0	10.5		ug/L		105	80 - 122	2	20
Dichlorodifluoromethane			10.0	7.88		ug/L		79	27 - 154	3	21
Ethyl methacrylate			10.0	9.18		ug/L		92	67 - 120	2	20
Ethylbenzene			10.0	10.7		ug/L		107	80 - 126	1	20
Iodomethane			50.0	49.5		ug/L		99	54 - 144	10	20
Isobutyl alcohol			50.0	65.4		ug/L		131	20 - 180	4	30
Methylacrylonitrile			10.0	10.5		ug/L		105	42 - 150	7	30
Methyl methacrylate			10.0	9.50		ug/L		95	66 - 126	6	20
Methylene Chloride			10.0	9.86		ug/L		99	80 - 120	4	20
Methyl tert-butyl ether			10.0	9.94		ug/L		99	69 - 128	5	20
Naphthalene			10.0	8.70		ug/L		87	70 - 130	4	20
o-Xylene			10.0	10.4		ug/L		104	80 - 124	2	20
m,p-Xylene			20.0	21.1		ug/L		106	80 - 123	1	20
Propionitrile			10.0	9.76		ug/L		98	58 - 145	8	30
Styrene			10.0	10.7		ug/L		107	80 - 121	2	20
trans-1,2-Dichloroethene			10.0	9.98		ug/L		100	79 - 120	4	20
trans-1,3-Dichloropropene			10.0	9.17		ug/L		92	80 - 126	3	20
trans-1,4-Dichloro-2-butene			10.0	9.12		ug/L		91	54 - 146	1	20
t-Butanol			50.0	56.1		ug/L		112	68 - 133	5	21
Tetrachloroethene			10.0	10.6		ug/L		106	80 - 125	3	20
Tetrahydrofuran			10.0	7.45		ug/L		75	32 - 152	1	30
Toluene			10.0	10.4		ug/L		104	80 - 120	3	20
Trichloroethene			10.0	10.3		ug/L		103	77 - 124	4	20
Trichlorofluoromethane			10.0	9.09		ug/L		91	41 - 163	6	21
Vinyl acetate			10.0	9.68		ug/L		97	61 - 126	15	24
Vinyl chloride			10.0	8.70		ug/L		87	50 - 160	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 132*
4-Bromofluorobenzene (Surr)	*98*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-314427/1-A
Matrix: Water
Analysis Batch: 314627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		03/24/23 09:02	03/24/23 17:56	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*36*		*21 - 120*	*03/24/23 09:02*	*03/24/23 17:56*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*64*		*58 - 135*	*03/24/23 09:02*	*03/24/23 17:56*	*1*

Lab Sample ID: LCS 570-314427/2-A
Matrix: Water
Analysis Batch: 314627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314427

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			20.0	19.1		ug/L		95	63 - 144		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*34*		*21 - 120*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*72*		*58 - 135*

Lab Sample ID: LCSD 570-314427/3-A
Matrix: Water
Analysis Batch: 314627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 314427

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			20.0	18.6		ug/L		93	63 - 144	2	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*33*		*21 - 120*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*69*		*58 - 135*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-314840/5
Matrix: Water
Analysis Batch: 314840

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.36	mg/L			03/27/23 04:25	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 570-314840/6
Matrix: Water
Analysis Batch: 314840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	47.3		mg/L		95	90 - 110

Lab Sample ID: LCSD 570-314840/7
Matrix: Water
Analysis Batch: 314840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	50.0	47.4		mg/L		95	90 - 110	0	15

Lab Sample ID: 570-132001-G-2 MS
Matrix: Water
Analysis Batch: 314840

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	170	F1	50.0	208	F1	mg/L		78	80 - 120

Lab Sample ID: 570-132001-G-2 MSD
Matrix: Water
Analysis Batch: 314840

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	170	F1	50.0	208		mg/L		80	80 - 120	0	20

Lab Sample ID: MB 570-314843/5
Matrix: Water
Analysis Batch: 314843

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.36	mg/L			03/27/23 04:25	1

Lab Sample ID: LCS 570-314843/6
Matrix: Water
Analysis Batch: 314843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	47.2		mg/L		94	90 - 110

Lab Sample ID: LCSD 570-314843/7
Matrix: Water
Analysis Batch: 314843

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	50.0	47.2		mg/L		94	90 - 110	0	15

Lab Sample ID: 570-131897-M-1 MS
Matrix: Water
Analysis Batch: 314843

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	16	F1	50.0	55.0	F1	mg/L		78	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 570-131897-M-1 MSD
Matrix: Water
Analysis Batch: 314843

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16	F1	50.0	55.0	F1	mg/L		78	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-314066/1-A
Matrix: Water
Analysis Batch: 315063

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 314066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		2.0	0.58	mg/L		03/23/23 08:41	03/27/23 12:48	1

Lab Sample ID: LCS 570-314066/2-A
Matrix: Water
Analysis Batch: 315063

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 314066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	5.00	4.86		mg/L		97	80 - 120

Lab Sample ID: LCSD 570-314066/3-A
Matrix: Water
Analysis Batch: 315063

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 314066

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	5.00	4.70		mg/L		94	80 - 120	3	20

Lab Sample ID: 570-132118-1 MS
Matrix: Water
Analysis Batch: 315063

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 314066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	32		5.00	38.1	4	mg/L		112	83 - 131

Lab Sample ID: 570-132118-1 MSD
Matrix: Water
Analysis Batch: 315063

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 314066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	32		5.00	39.3	4	mg/L		137	83 - 131	3	7

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 570-316971/5-B
Matrix: Water
Analysis Batch: 317033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.075	0.032	mg/L		04/03/23 10:18	04/03/23 12:09	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 570-316971/6-B
Matrix: Water
Analysis Batch: 317033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	0.500	0.492		mg/L		98	90 - 110

Lab Sample ID: LCSD 570-316971/7-B
Matrix: Water
Analysis Batch: 317033

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 316971

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	0.500	0.481		mg/L		96	90 - 110	2	20

Lab Sample ID: 570-132118-5 MS
Matrix: Water
Analysis Batch: 317033

Client Sample ID: DW-3
Prep Type: Total/NA
Prep Batch: 316971

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	0.53		0.500	1.01		mg/L		96	90 - 110

Lab Sample ID: 570-132118-5 MSD
Matrix: Water
Analysis Batch: 317033

Client Sample ID: DW-3
Prep Type: Total/NA
Prep Batch: 316971

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	0.53		0.500	1.01		mg/L		97	90 - 110	1	25

Method: 410.4 - COD

Lab Sample ID: MB 570-314586/3-A
Matrix: Water
Analysis Batch: 314631

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		100	14	mg/L		03/24/23 15:53	03/24/23 17:28	1

Lab Sample ID: LCS 570-314586/4-A
Matrix: Water
Analysis Batch: 314631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	200	212		mg/L		106	90 - 110

Lab Sample ID: LCSD 570-314586/5-A
Matrix: Water
Analysis Batch: 314631

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 314586

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	200	210		mg/L		105	90 - 110	1	20

Method: 410.4 - COD (Continued)

Lab Sample ID: 570-132118-1 MS
Matrix: Water
Analysis Batch: 314631

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 314586

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	100	F1	200	311		mg/L		104	90 - 110

Lab Sample ID: 570-132118-1 MSD
Matrix: Water
Analysis Batch: 314631

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 314586

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	100	F1	200	283	F1	mg/L		89	90 - 110	10	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 570-314532/11
Matrix: Water
Analysis Batch: 314532

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		5.0	2.2	mg/L			03/23/23 17:05	1

Lab Sample ID: LCS 570-314532/8
Matrix: Water
Analysis Batch: 314532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total (As CaCO3)	106	97.6		mg/L		92	78 - 110

Lab Sample ID: LCSD 570-314532/9
Matrix: Water
Analysis Batch: 314532

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity, Total (As CaCO3)	106	98.0		mg/L		92	78 - 110	0	10

Lab Sample ID: 570-132076-H-1 DU
Matrix: Water
Analysis Batch: 314532

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total (As CaCO3)	230		234		mg/L		4	25

Lab Sample ID: MB 570-316693/4
Matrix: Water
Analysis Batch: 316693

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		5.0	2.2	mg/L			03/31/23 15:30	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 570-316693/2
Matrix: Water
Analysis Batch: 316693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total (As CaCO3)	106	94.0		mg/L		89	78 - 110

Lab Sample ID: LCSD 570-316693/3
Matrix: Water
Analysis Batch: 316693

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity, Total (As CaCO3)	106	93.8		mg/L		88	78 - 110	0	10

Lab Sample ID: 570-132939-F-1 DU
Matrix: Water
Analysis Batch: 316693

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total (As CaCO3)	150		147		mg/L		0.1	25

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 570-315035/1
Matrix: Water
Analysis Batch: 315035

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	8.7	mg/L			03/27/23 13:07	1

Lab Sample ID: LCS 570-315035/2
Matrix: Water
Analysis Batch: 315035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	982		mg/L		98	84 - 108

Lab Sample ID: LCSD 570-315035/3
Matrix: Water
Analysis Batch: 315035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	986		mg/L		99	84 - 108	0	10

Lab Sample ID: 570-132118-2 DU
Matrix: Water
Analysis Batch: 315035

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2400		2460		mg/L		0.4	10

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 570-315594/1
Matrix: Water
Analysis Batch: 315594

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	8.7	mg/L			03/28/23 21:51	1

Lab Sample ID: LCS 570-315594/2
Matrix: Water
Analysis Batch: 315594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1030		mg/L		103	84 - 108		

Lab Sample ID: LCSD 570-315594/3
Matrix: Water
Analysis Batch: 315594

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1040		mg/L		104	84 - 108	1	10

Lab Sample ID: 570-132118-1 DU
Matrix: Water
Analysis Batch: 315594

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	6800			6730		mg/L				0.4	10

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 570-317626/3
Matrix: Water
Analysis Batch: 317626

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.50	0.26	mg/L			04/04/23 21:45	1

Lab Sample ID: LCS 570-317626/4
Matrix: Water
Analysis Batch: 317626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			5.03	4.95		mg/L		98	85 - 115		

Lab Sample ID: LCSD 570-317626/5
Matrix: Water
Analysis Batch: 317626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon			5.03	4.98		mg/L		99	85 - 115	1	20

Method: SM 5310D - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 570-132791-D-1 MS ^400
Matrix: Water
Analysis Batch: 317626

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	810		2010	2680		mg/L		93	31 - 145		

Lab Sample ID: 570-132791-D-1 MSD ^400
Matrix: Water
Analysis Batch: 317626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	810		2010	2700		mg/L		94	31 - 145	1	20

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

GC/MS VOA

Analysis Batch: 314241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total/NA	Water	8260B	
570-132118-2	MW-5	Total/NA	Water	8260B	
570-132118-3	MW-13R	Total/NA	Water	8260B	
570-132118-4	DW-2	Total/NA	Water	8260B	
570-132118-5	DW-3	Total/NA	Water	8260B	
570-132118-6	DW-5	Total/NA	Water	8260B	
570-132118-7	PZ-4	Total/NA	Water	8260B	
570-132118-8	Field Blank	Total/NA	Water	8260B	
570-132118-9	Trip Blank	Total/NA	Water	8260B	
MB 570-314241/6	Method Blank	Total/NA	Water	8260B	
LCS 570-314241/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-314241/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 314427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total/NA	Water	3510C	
570-132118-2	MW-5	Total/NA	Water	3510C	
570-132118-3	MW-13R	Total/NA	Water	3510C	
570-132118-4	DW-2	Total/NA	Water	3510C	
570-132118-5	DW-3	Total/NA	Water	3510C	
570-132118-6	DW-5	Total/NA	Water	3510C	
570-132118-7	PZ-4	Total/NA	Water	3510C	
MB 570-314427/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-314427/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-314427/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 314627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total/NA	Water	8270C SIM ID	314427
570-132118-2	MW-5	Total/NA	Water	8270C SIM ID	314427
570-132118-3	MW-13R	Total/NA	Water	8270C SIM ID	314427
570-132118-4	DW-2	Total/NA	Water	8270C SIM ID	314427
570-132118-5	DW-3	Total/NA	Water	8270C SIM ID	314427
570-132118-6	DW-5	Total/NA	Water	8270C SIM ID	314427
570-132118-7	PZ-4	Total/NA	Water	8270C SIM ID	314427
MB 570-314427/1-A	Method Blank	Total/NA	Water	8270C SIM ID	314427
LCS 570-314427/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	314427
LCSD 570-314427/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	314427

HPLC/IC

Analysis Batch: 314840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-4	DW-2	Total/NA	Water	300.0	
570-132118-5	DW-3	Total/NA	Water	300.0	
570-132118-6	DW-5	Total/NA	Water	300.0	
570-132118-7	PZ-4	Total/NA	Water	300.0	
MB 570-314840/5	Method Blank	Total/NA	Water	300.0	
LCS 570-314840/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-314840/7	Lab Control Sample Dup	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 314840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132001-G-2 MS	Matrix Spike	Total/NA	Water	300.0	
570-132001-G-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 314843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total/NA	Water	300.0	
570-132118-2	MW-5	Total/NA	Water	300.0	
570-132118-3	MW-13R	Total/NA	Water	300.0	
MB 570-314843/5	Method Blank	Total/NA	Water	300.0	
LCS 570-314843/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-314843/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-131897-M-1 MS	Matrix Spike	Total/NA	Water	300.0	
570-131897-M-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 314066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total Recoverable	Water	3005A	
570-132118-2	MW-5	Total Recoverable	Water	3005A	
570-132118-3	MW-13R	Total Recoverable	Water	3005A	
570-132118-4	DW-2	Total Recoverable	Water	3005A	
570-132118-5	DW-3	Total Recoverable	Water	3005A	
570-132118-6	DW-5	Total Recoverable	Water	3005A	
570-132118-7	PZ-4	Total Recoverable	Water	3005A	
MB 570-314066/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 570-314066/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 570-314066/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
570-132118-1 MS	MW-1	Total Recoverable	Water	3005A	
570-132118-1 MSD	MW-1	Total Recoverable	Water	3005A	

Analysis Batch: 315063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total Recoverable	Water	6010B	314066
570-132118-2	MW-5	Total Recoverable	Water	6010B	314066
570-132118-3	MW-13R	Total Recoverable	Water	6010B	314066
570-132118-4	DW-2	Total Recoverable	Water	6010B	314066
570-132118-5	DW-3	Total Recoverable	Water	6010B	314066
570-132118-6	DW-5	Total Recoverable	Water	6010B	314066
570-132118-7	PZ-4	Total Recoverable	Water	6010B	314066
MB 570-314066/1-A	Method Blank	Total Recoverable	Water	6010B	314066
LCS 570-314066/2-A	Lab Control Sample	Total Recoverable	Water	6010B	314066
LCSD 570-314066/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	314066
570-132118-1 MS	MW-1	Total Recoverable	Water	6010B	314066
570-132118-1 MSD	MW-1	Total Recoverable	Water	6010B	314066

General Chemistry

Analysis Batch: 314532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-6	DW-5	Total/NA	Water	SM 2320B	
570-132118-7	PZ-4	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 314532 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-314532/11	Method Blank	Total/NA	Water	SM 2320B	
LCS 570-314532/8	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 570-314532/9	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
570-132076-H-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Prep Batch: 314586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total/NA	Water	410.4	
570-132118-2	MW-5	Total/NA	Water	410.4	
570-132118-3	MW-13R	Total/NA	Water	410.4	
570-132118-4	DW-2	Total/NA	Water	410.4	
570-132118-5	DW-3	Total/NA	Water	410.4	
570-132118-6	DW-5	Total/NA	Water	410.4	
570-132118-7	PZ-4	Total/NA	Water	410.4	
MB 570-314586/3-A	Method Blank	Total/NA	Water	410.4	
LCS 570-314586/4-A	Lab Control Sample	Total/NA	Water	410.4	
LCSD 570-314586/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	
570-132118-1 MS	MW-1	Total/NA	Water	410.4	
570-132118-1 MSD	MW-1	Total/NA	Water	410.4	

Analysis Batch: 314631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total/NA	Water	410.4	314586
570-132118-2	MW-5	Total/NA	Water	410.4	314586
570-132118-3	MW-13R	Total/NA	Water	410.4	314586
570-132118-4	DW-2	Total/NA	Water	410.4	314586
570-132118-5	DW-3	Total/NA	Water	410.4	314586
570-132118-6	DW-5	Total/NA	Water	410.4	314586
570-132118-7	PZ-4	Total/NA	Water	410.4	314586
MB 570-314586/3-A	Method Blank	Total/NA	Water	410.4	314586
LCS 570-314586/4-A	Lab Control Sample	Total/NA	Water	410.4	314586
LCSD 570-314586/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	314586
570-132118-1 MS	MW-1	Total/NA	Water	410.4	314586
570-132118-1 MSD	MW-1	Total/NA	Water	410.4	314586

Analysis Batch: 315035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-2	MW-5	Total/NA	Water	SM 2540C	
570-132118-3	MW-13R	Total/NA	Water	SM 2540C	
570-132118-4	DW-2	Total/NA	Water	SM 2540C	
570-132118-5	DW-3	Total/NA	Water	SM 2540C	
570-132118-6	DW-5	Total/NA	Water	SM 2540C	
570-132118-7	PZ-4	Total/NA	Water	SM 2540C	
MB 570-315035/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-315035/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-315035/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-132118-2 DU	MW-5	Total/NA	Water	SM 2540C	

Analysis Batch: 315594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 315594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-315594/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-315594/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-315594/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-132118-1 DU	MW-1	Total/NA	Water	SM 2540C	

Analysis Batch: 316693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total/NA	Water	SM 2320B	
570-132118-2	MW-5	Total/NA	Water	SM 2320B	
570-132118-3	MW-13R	Total/NA	Water	SM 2320B	
570-132118-4	DW-2	Total/NA	Water	SM 2320B	
570-132118-5	DW-3	Total/NA	Water	SM 2320B	
MB 570-316693/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 570-316693/2	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 570-316693/3	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
570-132939-F-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Prep Batch: 316971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total/NA	Water	Distill/Ammonia	
570-132118-2	MW-5	Total/NA	Water	Distill/Ammonia	
570-132118-3	MW-13R	Total/NA	Water	Distill/Ammonia	
570-132118-4	DW-2	Total/NA	Water	Distill/Ammonia	
570-132118-5	DW-3	Total/NA	Water	Distill/Ammonia	
570-132118-6	DW-5	Total/NA	Water	Distill/Ammonia	
570-132118-7	PZ-4	Total/NA	Water	Distill/Ammonia	
MB 570-316971/5-B	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 570-316971/6-B	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
LCSD 570-316971/7-B	Lab Control Sample Dup	Total/NA	Water	Distill/Ammonia	
570-132118-5 MS	DW-3	Total/NA	Water	Distill/Ammonia	
570-132118-5 MSD	DW-3	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 317033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total/NA	Water	350.1	316971
570-132118-2	MW-5	Total/NA	Water	350.1	316971
570-132118-3	MW-13R	Total/NA	Water	350.1	316971
570-132118-4	DW-2	Total/NA	Water	350.1	316971
570-132118-5	DW-3	Total/NA	Water	350.1	316971
570-132118-6	DW-5	Total/NA	Water	350.1	316971
570-132118-7	PZ-4	Total/NA	Water	350.1	316971
MB 570-316971/5-B	Method Blank	Total/NA	Water	350.1	316971
LCS 570-316971/6-B	Lab Control Sample	Total/NA	Water	350.1	316971
LCSD 570-316971/7-B	Lab Control Sample Dup	Total/NA	Water	350.1	316971
570-132118-5 MS	DW-3	Total/NA	Water	350.1	316971
570-132118-5 MSD	DW-3	Total/NA	Water	350.1	316971

Analysis Batch: 317626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-1	MW-1	Total/NA	Water	SM 5310D	
570-132118-2	MW-5	Total/NA	Water	SM 5310D	

General Chemistry (Continued)

Analysis Batch: 317626 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-132118-3	MW-13R	Total/NA	Water	SM 5310D	
570-132118-4	DW-2	Total/NA	Water	SM 5310D	
570-132118-5	DW-3	Total/NA	Water	SM 5310D	
570-132118-6	DW-5	Total/NA	Water	SM 5310D	
570-132118-7	PZ-4	Total/NA	Water	SM 5310D	
MB 570-317626/3	Method Blank	Total/NA	Water	SM 5310D	
LCS 570-317626/4	Lab Control Sample	Total/NA	Water	SM 5310D	
LCSD 570-317626/5	Lab Control Sample Dup	Total/NA	Water	SM 5310D	
570-132791-D-1 MS ^400	Matrix Spike	Total/NA	Water	SM 5310D	
570-132791-D-1 MSD ^400	Matrix Spike Duplicate	Total/NA	Water	SM 5310D	

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: MW-1

Date Collected: 03/21/23 12:03
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	314241	03/24/23 06:46	N1A	EET CAL 4
	Instrument ID: GCMSVV									
Total/NA	Prep	3510C			135.2 mL	10 mL	314427	03/24/23 09:02	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314627	03/24/23 21:32	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		100	4 mL	4 mL	314843	03/27/23 13:13	UIP1	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	314066	03/23/23 08:41	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		2			315063	03/27/23 13:00	K1UV	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	316971	04/03/23 10:18	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	317033	04/03/23 12:42	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	314586	03/24/23 15:53	UWCT	EET CAL 4
Total/NA	Analysis	410.4		1			314631	03/24/23 17:28	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	316693	03/31/23 15:52	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	315594	03/28/23 21:51	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		20	40 mL	40 mL	317626	04/05/23 05:57	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: MW-5

Date Collected: 03/21/23 10:24
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	314241	03/24/23 09:52	N1A	EET CAL 4
	Instrument ID: GCMSVV									
Total/NA	Prep	3510C			133 mL	10 mL	314427	03/24/23 09:02	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314627	03/24/23 21:46	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		10	4 mL	4 mL	314843	03/27/23 13:30	UIP1	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	314066	03/23/23 08:41	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315063	03/27/23 13:10	K1UV	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	316971	04/03/23 10:18	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	317033	04/03/23 12:44	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	314586	03/24/23 15:53	UWCT	EET CAL 4
Total/NA	Analysis	410.4		1			314631	03/24/23 17:28	ZL7L	EET CAL 4
	Instrument ID: UV10									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: MW-5

Date Collected: 03/21/23 10:24
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	316693	03/31/23 15:59	BDH9	EET CAL 4
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	315035	03/27/23 13:07	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		20	40 mL	40 mL	317626	04/05/23 06:19	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: MW-13R

Date Collected: 03/21/23 08:41
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	314241	03/24/23 10:18	N1A	EET CAL 4
	Instrument ID: GCMSVV									
Total/NA	Prep	3510C			132.5 mL	10 mL	314427	03/24/23 09:02	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314627	03/24/23 22:01	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		10	4 mL	4 mL	314843	03/27/23 13:47	UIP1	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	314066	03/23/23 08:41	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315063	03/27/23 13:12	K1UV	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	316971	04/03/23 10:18	UXCH	EET CAL 4
Total/NA	Analysis	350.1		10	5 mL	5 mL	317033	04/03/23 12:41	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	314586	03/24/23 15:53	UWCT	EET CAL 4
Total/NA	Analysis	410.4		1			314631	03/24/23 17:28	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	316693	03/31/23 16:05	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	315035	03/27/23 13:07	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		20	40 mL	40 mL	317626	04/05/23 06:51	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: DW-2

Date Collected: 03/21/23 11:31
Date Received: 03/21/23 17:10

Lab Sample ID: 570-132118-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	314241	03/24/23 07:13	N1A	EET CAL 4
	Instrument ID: GCMSVV									
Total/NA	Prep	3510C			135.7 mL	10 mL	314427	03/24/23 09:02	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314627	03/24/23 22:15	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									

Client Sample ID: DW-2

Lab Sample ID: 570-132118-4

Date Collected: 03/21/23 11:31

Matrix: Water

Date Received: 03/21/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	4 mL	4 mL	314840	03/27/23 13:26	YO8L	EET CAL 4
Total Recoverable	Prep	3005A			50 mL	50 mL	314066	03/23/23 08:41	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315063	03/27/23 13:26	K1UV	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	316971	04/03/23 10:18	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	317033	04/03/23 12:45	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	314586	03/24/23 15:53	UWCT	EET CAL 4
Total/NA	Analysis	410.4		1			314631	03/24/23 17:28	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	316693	03/31/23 16:12	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	315035	03/27/23 13:07	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	317626	04/05/23 07:11	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: DW-3

Lab Sample ID: 570-132118-5

Date Collected: 03/21/23 09:05

Matrix: Water

Date Received: 03/21/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	314241	03/24/23 07:39	N1A	EET CAL 4
	Instrument ID: GCMSVV									
Total/NA	Prep	3510C			132.1 mL	10 mL	314427	03/24/23 09:02	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314627	03/24/23 22:30	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		10	4 mL	4 mL	314840	03/27/23 13:43	YO8L	EET CAL 4
	Instrument ID: IC10									
Total Recoverable	Prep	3005A			50 mL	50 mL	314066	03/23/23 08:41	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315063	03/27/23 13:29	K1UV	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	316971	04/03/23 10:18	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	317033	04/03/23 12:47	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	314586	03/24/23 15:53	UWCT	EET CAL 4
Total/NA	Analysis	410.4		1			314631	03/24/23 17:28	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	316693	03/31/23 16:19	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	315035	03/27/23 13:07	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	317626	04/05/23 07:33	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: DW-5

Lab Sample ID: 570-132118-6

Date Collected: 03/21/23 11:14

Matrix: Water

Date Received: 03/21/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	314241	03/24/23 08:06	N1A	EET CAL 4
	Instrument ID: GCMSVV									
Total/NA	Prep	3510C			130.8 mL	10 mL	314427	03/24/23 09:02	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314627	03/24/23 22:44	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		10	4 mL	4 mL	314840	03/27/23 14:00	YO8L	EET CAL 4
	Instrument ID: IC10									
Total Recoverable	Prep	3005A			50 mL	50 mL	314066	03/23/23 08:41	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315063	03/27/23 13:31	K1UV	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	316971	04/03/23 10:18	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	317033	04/03/23 12:48	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	314586	03/24/23 15:53	UWCT	EET CAL 4
Total/NA	Analysis	410.4		1			314631	03/24/23 17:28	ZL7L	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	314532	03/23/23 19:47	BDH9	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	315035	03/27/23 13:07	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		4	40 mL	40 mL	317626	04/05/23 07:55	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: PZ-4

Lab Sample ID: 570-132118-7

Date Collected: 03/21/23 09:02

Matrix: Water

Date Received: 03/21/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	314241	03/24/23 08:32	N1A	EET CAL 4
	Instrument ID: GCMSVV									
Total/NA	Prep	3510C			132.1 mL	10 mL	314427	03/24/23 09:02	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	314627	03/24/23 22:58	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		10	4 mL	4 mL	314840	03/27/23 14:17	YO8L	EET CAL 4
	Instrument ID: IC10									
Total Recoverable	Prep	3005A			50 mL	50 mL	314066	03/23/23 08:41	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			315063	03/27/23 13:34	K1UV	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	316971	04/03/23 10:18	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	317033	04/03/23 12:50	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	314586	03/24/23 15:53	UWCT	EET CAL 4
Total/NA	Analysis	410.4		1			314631	03/24/23 17:28	ZL7L	EET CAL 4
	Instrument ID: UV10									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Client Sample ID: PZ-4

Lab Sample ID: 570-132118-7

Date Collected: 03/21/23 09:02

Matrix: Water

Date Received: 03/21/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	314532	03/23/23 19:53	BDH9	EET CAL 4
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	315035	03/27/23 13:07	ZL7L	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	317626	04/05/23 08:18	UAPD	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: Field Blank

Lab Sample ID: 570-132118-8

Date Collected: 03/21/23 00:00

Matrix: Water

Date Received: 03/21/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	314241	03/24/23 08:59	N1A	EET CAL 4
	Instrument ID: GCMSVV									

Client Sample ID: Trip Blank

Lab Sample ID: 570-132118-9

Date Collected: 03/21/23 00:00

Matrix: Water

Date Received: 03/21/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	314241	03/24/23 09:25	N1A	EET CAL 4
	Instrument ID: GCMSVV									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geo-Logic Associates
Job ID: 570-132118-1
Project/Site: Republic Sunshine Canyon

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	Los Angeles County Sanitation Districts	10109	07-31-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Nevada	State	CA00111	08-01-23
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	05-24-23
Washington	State	C916-18	10-11-23

Method Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
350.1	Nitrogen, Ammonia	EPA	EET CAL 4
410.4	COD	EPA	EET CAL 4
SM 2320B	Alkalinity	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
SM 5310D	Organic Carbon, Total (TOC)	SM	EET CAL 4
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
410.4	COD	EPA	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
Distill/Ammonia	Distillation, Ammonia	None	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 570-132118-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-132118-1	MW-1	Water	03/21/23 12:03	03/21/23 17:10
570-132118-2	MW-5	Water	03/21/23 10:24	03/21/23 17:10
570-132118-3	MW-13R	Water	03/21/23 08:41	03/21/23 17:10
570-132118-4	DW-2	Water	03/21/23 11:31	03/21/23 17:10
570-132118-5	DW-3	Water	03/21/23 09:05	03/21/23 17:10
570-132118-6	DW-5	Water	03/21/23 11:14	03/21/23 17:10
570-132118-7	PZ-4	Water	03/21/23 09:02	03/21/23 17:10
570-132118-8	Field Blank	Water	03/21/23 00:00	03/21/23 17:10
570-132118-9	Trip Blank	Water	03/21/23 00:00	03/21/23 17:10

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

570-132118 Chain of Custody

Loc: 570
132118

Calscience

Client Information

Sampler: BS, CV, NR
Lab PM: Rossina Tamayo
Client Contact: Kyle Welchons / Paul Koster
Phone: 858-451-1136
E-Mail:
Page: 1 of 1
Company: GLA / Republic Services
Job #: 5022.1532
Address: 11411 W. Bernardo Ct.
Due Date Requested:
City: San Diego
TAT Requested (days):
State, Zip: CA 92127
Phone: 858-451-1136 / 888-362-2258
PO #:
Email:
WO #:
Project Name: Republic Services, Inc.
Project #:
Site: Sunshine Can. Landfill
SSOW#:

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 8260B - VOCs	EPA 8270C - 1,4-Dioxane	EPA 300.1 Perchlorate	EPA 350.2 - Ammonia as N	EPA 410.4 - COD	EPA 300.0 - Chloride	EPA 6010B Dissolved Metals	EPA 160.1 - TDS	EPA 415.1 - TOC	Total Number of containers	Special Instructions/Note:
				Preservation Code:														
1	MW-1	3/21/23	1203	G	GW			X	X	X	X	X	X	X	X	X		
2	MW-5		1024					X	X	X	X	X	X	X	X	X		
3	MW-13R		0841					X	X	X	X	X	X	X	X	X		
4	DW-2		1131					X	X	X	X	X	X	X	X	X		
5	DW-3		0905					X	X	X	X	X	X	X	X	X		
6	DW-5		1114					X	X	X	X	X	X	X	X	X		
7	PZ-4		0902		GW			X	X	X	X	X	X	X	X	X		
8	Field Blank		—		Water			X										
9	Trip Blank	3/21/23	—		"			X										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	3/21/23 1955	GLA	Received by:	3/21/23 1355	EC
Relinquished by:	3/21/23 1710	EC	Received by:	3/21/23 1710	R
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

1.6/1.6 2.0/2.0 SCH

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 570-132118-1

Login Number: 132118
List Number: 1
Creator: Nguyen, Jocelyn

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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Client Information	Sampler: Christian Valenzuela	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Kyle Welchas	Phone: (858) 451-1136	E-Mail: kwelchas@geo-logic.com		Page:
Company: Geo-Logic Associates			Analysis Requested	Job #: 5022.1227

Address: 2777 E Guasti Rd 4th Fl	Due Date Requested:	
City: Ontario	TAT Requested (days):	
State, Zip: California 91761		
Phone: 909 626-2282	PO #:	
Email:	WO #:	
Project Name: Sunshine Canyon	Project #:	
Site: Sunshine Canyon	SSOW#:	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	EPA 8081A - Endosulfan I	EPA 8081A - Endosulfan sulfate	Number of containers	Special Instructions/Note:
Deep Leachate	4-14-23	0805	G	Liquid		X			
LR-2R	4-14-23	0725	G	Liquid		X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Christian Valenzuela	4-14-23 1010	GLA	Received by:	4/14/23 10:10	EL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Geo-Logic ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET

Site: Sunshine Canyon

Project No.: 5022.1227

Station I.D.: Deep Leachate

Collected By: CV

Horiba Model S/N: 4-52 W66P86R5

Sampling Date: 4-14-23

Sampling Time: 0805

Duplicate Sample: YES (NO)

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Dark Brown	Strong	8.58	25.6	752	5.83	15.38	17

Leachate sampling station conditions: Sample Collected From Sampling Port.

Additional Info/Comments: Some overcast, cool, slight Breez

Christian Valenzuela

Christian Valenzuela

Geo-Logic ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET

Site: Sunshine Canyon

Project No.: 5022.1227

Station I.D.: LR-2R

Collected By: CV

Horiba Model S/N: 4-52W66P8GRS

Sampling Date: 4-14-23

Sampling Time: 0725

Duplicate Sample: YES (NO)

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Yellowish	Strong	6.99	8.58	23.1	3.77	24.72	-122

Leachate sampling station conditions: OK, Had to Hike to sampling Location. Removed 7 Bolts out of the 8. 8th Bolt seized But can Rotate Lid.

Additional Info/Comments: Some overcast, COOL, Slight Breeze, Heavy traffic to northwest side of Location.

Christian Valenzuela

Christian Valenzuela

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Welchans
Geo-Logic Associates
11415 West Bernardo Court
Suite 200
San Diego, California 92127

Generated 4/27/2023 1:28:33 PM

JOB DESCRIPTION

Sunshine Canyon

JOB NUMBER

570-135108-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

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4/27/2023 1:28:33 PM

Authorized for release by
Rossina Tomova, Project Manager I
Rossina.Tomova@et.eurofinsus.com
(657)210-6367

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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Sunshine Canyon

Job ID: 570-135108-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geo-Logic Associates
Project/Site: Sunshine Canyon

Job ID: 570-135108-1

Job ID: 570-135108-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-135108-1

Comments
No additional comments.

Receipt
The samples were received on 4/14/2023 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Sunshine Canyon

Job ID: 570-135108-1

Client Sample ID: Deep LEACHATE — Lab Sample ID: 570-135108-1

No Detections.

Client Sample ID: LR-2R — Lab Sample ID: 570-135108-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geo-Logic Associates
Project/Site: Sunshine Canyon

Job ID: 570-135108-1

Client Sample ID: Deep LEACHATE
Date Collected: 04/14/23 08:05
Date Received: 04/14/23 10:10

Lab Sample ID: 570-135108-1
Matrix: Water

Method: SW846 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.0080	0.0077	ug/L		04/19/23 08:14	04/26/23 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*109*	*p*	*49 - 132*	*04/19/23 08:14*	*04/26/23 16:58*	*1*
DCB Decachlorobiphenyl (Surr)	*17*		*10 - 142*	*04/19/23 08:14*	*04/26/23 16:58*	*1*

Client: Geo-Logic Associates
Project/Site: Sunshine Canyon

Job ID: 570-135108-1

Client Sample ID: LR-2R
Date Collected: 04/14/23 07:25
Date Received: 04/14/23 10:10

Lab Sample ID: 570-135108-2
Matrix: Water

Method: SW846 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.0080	0.0077	ug/L		04/19/23 08:14	04/26/23 17:12	1
Endosulfan sulfate	ND		0.020	0.0082	ug/L		04/19/23 08:14	04/26/23 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*89*		*49 - 132*	*04/19/23 08:14*	*04/26/23 17:12*	*1*
DCB Decachlorobiphenyl (Surr)	*46*		*10 - 142*	*04/19/23 08:14*	*04/26/23 17:12*	*1*

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Sunshine Canyon

Job ID: 570-135108-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX1	DCB1										
Lab Sample ID	Client Sample ID	(49-132)	(10-142)										
570-135108-1	Deep LEACHATE	109 p	17										

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX2	DCB1										
Lab Sample ID	Client Sample ID	(49-132)	(10-142)										
570-135108-2	LR-2R	89	46										

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX2	DCB2										
Lab Sample ID	Client Sample ID	(49-132)	(10-142)										
570-135250-C-7-A MS	Matrix Spike	100	89										
570-135250-C-7-B MSD	Matrix Spike Duplicate	93	78										
LCS 570-321753/2-A	Lab Control Sample	97	87										
LCSD 570-321753/3-A	Lab Control Sample Dup	82	77										
MB 570-321753/1-A	Method Blank	86	80										

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 570-321753/1-A
Matrix: Water
Analysis Batch: 323664

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321753

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.0080	0.0077	ug/L		04/19/23 08:14	04/25/23 18:49	1
Endosulfan sulfate	ND		0.020	0.0082	ug/L		04/19/23 08:14	04/25/23 18:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*86*		*49 - 132*	*04/19/23 08:14*	*04/25/23 18:49*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*10 - 142*	*04/19/23 08:14*	*04/25/23 18:49*	*1*

Lab Sample ID: LCS 570-321753/2-A
Matrix: Water
Analysis Batch: 323664

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321753

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Endosulfan I			0.200	0.168		ug/L		84	26 - 150		
Endosulfan sulfate			0.200	0.127		ug/L		64	25 - 146		

Surrogate			*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)			*97*		*49 - 132*
DCB Decachlorobiphenyl (Surr)			*87*		*10 - 142*

Lab Sample ID: LCSD 570-321753/3-A
Matrix: Water
Analysis Batch: 323664

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 321753

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endosulfan I			0.200	0.141		ug/L		71	26 - 150	17	25
Endosulfan sulfate			0.200	0.110		ug/L		55	25 - 146	15	27

Surrogate			*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)			*82*		*49 - 132*
DCB Decachlorobiphenyl (Surr)			*77*		*10 - 142*

Lab Sample ID: 570-135250-C-7-A MS
Matrix: Water
Analysis Batch: 323664

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 321753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Endosulfan I	0.12		0.200	0.289		ug/L		86	10 - 169		
Endosulfan sulfate	0.050		0.200	0.183		ug/L		66	10 - 175		

Surrogate			*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)			*100*		*49 - 132*
DCB Decachlorobiphenyl (Surr)			*89*		*10 - 142*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 570-135250-C-7-B MSD
Matrix: Water
Analysis Batch: 323664

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 321753

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Endosulfan I	0.12		0.200	0.269		ug/L		76	10 - 169	7	29
Endosulfan sulfate	0.050		0.200	0.172		ug/L		61	10 - 175	6	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*93*		*49 - 132*
DCB Decachlorobiphenyl (Surr)	*78*		*10 - 142*

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Sunshine Canyon

Job ID: 570-135108-1

GC Semi VOA

Prep Batch: 321753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-135108-1	Deep LEACHATE	Total/NA	Water	3510C	
570-135108-2	LR-2R	Total/NA	Water	3510C	
MB 570-321753/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-321753/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-321753/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
570-135250-C-7-A MS	Matrix Spike	Total/NA	Water	3510C	
570-135250-C-7-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 323664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-135108-1	Deep LEACHATE	Total/NA	Water	8081A	321753
570-135108-2	LR-2R	Total/NA	Water	8081A	321753
MB 570-321753/1-A	Method Blank	Total/NA	Water	8081A	321753
LCS 570-321753/2-A	Lab Control Sample	Total/NA	Water	8081A	321753
LCSD 570-321753/3-A	Lab Control Sample Dup	Total/NA	Water	8081A	321753
570-135250-C-7-A MS	Matrix Spike	Total/NA	Water	8081A	321753
570-135250-C-7-B MSD	Matrix Spike Duplicate	Total/NA	Water	8081A	321753

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Sunshine Canyon

Job ID: 570-135108-1

Client Sample ID: Deep LEACHATE

Lab Sample ID: 570-135108-1

Date Collected: 04/14/23 08:05

Matrix: Water

Date Received: 04/14/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	321753	04/19/23 08:14	OAJ3	EET CAL 4
Total/NA	Analysis	8081A		1	1 mL	1 mL	323664	04/26/23 16:58	N5Y3	EET CAL 4

Instrument ID: GC52A

Client Sample ID: LR-2R

Lab Sample ID: 570-135108-2

Date Collected: 04/14/23 07:25

Matrix: Water

Date Received: 04/14/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	1 mL	321753	04/19/23 08:14	OAJ3	EET CAL 4
Total/NA	Analysis	8081A		1	1 mL	1 mL	323664	04/26/23 17:12	N5Y3	EET CAL 4

Instrument ID: GC52A

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geo-Logic Associates
Project/Site: Sunshine Canyon

Job ID: 570-135108-1

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	Los Angeles County Sanitation Districts	10109	07-31-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Nevada	State	CA00111	08-01-23
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	05-24-23
Washington	State	C916-18	10-11-23

Method Summary

Client: Geo-Logic Associates
Project/Site: Sunshine Canyon

Job ID: 570-135108-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Geo-Logic Associates
Project/Site: Sunshine Canyon

Job ID: 570-135108-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-135108-1	Deep LEACHATE	Water	04/14/23 08:05	04/14/23 10:10
570-135108-2	LR-2R	Water	04/14/23 07:25	04/14/23 10:10

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins | Calscience

Client Information	Sampler: Christian Valenzuela	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Kyle Welchans	Phone: (858) 451-1136	E-Mail: kwelchans@geo-logic.com		Page:
Company: Geo-Logic Associates		Analysis Requested		Job #: 5022.1227
Address: 2777 E Guasti Rd 4th Fl	Due Date Requested:			Preservation Codes:
City: Ontario	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: California 91761	PO #:			Other:
Phone: 909 626-2282	WO #:			
Email:	Project #:			
Project Name: Sunshine Canyon	SSOW#:			
Site: Sunshine Canyon				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	EPA 8081A - Endosulfan I	EPA 8081A - Endosulfan sulfate	Special Instructions/Note:
Deep Leachate	4-14-23	0805	G	Liquid	X		
LR-2R	4-14-23	0725	G	Liquid	X	X	

570-135108 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Christian Valenzuela	4-14-23 1010	GLA		4/14/23 10:10	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: SEE 2.8/2.7

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 570-135108-1

Login Number: 135108

List Source: Eurofins Calscience

List Number: 1

Creator: Vitente, Precy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon **PROJECT NAME / NUMBER**

Instrument Make/Model # U-52 WQCP8GRS

Date/Time 4-14-23 0628	pH	Electrical Conductivity (µMhos/cm) (4.49 mg/Kg)	Turbidity (NTU) (0)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	3.99	4.53	0.0	13.23		
Calibration	4.00	4.51	0.0	10.83		
Calibration Successful? (Y/N)	Yes				enter YES or NO	
Satifies Protocol?	Yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	CRV				Signature or initials	
Physical Condition of Unit	OK					

GeoLogic Associates

Effective June 1, 2008

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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Client Information	Sampler: NR, CV	Lab PM: Rossina	Carrier Tracking No(s):	COC No:
Client Contact: Kyle Welchans	Phone: (858) 451-1136	E-Mail: KWelchans@Geo-Logic.com		Page: 1 of 2
Company: Geo-Logic Associates				Job #:

Address: 11415 W Bernardo Ct Suite 200	Due Date Requested:
City: San Diego	TAT Requested (days):
State, Zip: CA 92127	
Phone: (858) 451-1136	PO #:
Email:	WO #:
Project Name: Republic Services-Sunshine Canyon Landfill	Project #: 5022.1032
Site: Sunshine Canyon Landfill	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 350.2 - Ammonia as N	EPA 410.4 - COD	EPA 160.1 - Total Dissolved Solids	EPA 6010B - Total Potassium	EPA 8270 - 1,4 Dioxane	EPA 300.0 - Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
PZ-4-A	6/1/23	0909	G	GW			X	X	X	X	X			
PZ-4-B	6/1/23	0914	G	GW			X	X	X	X	X			
DW-3-A	6/1/23	1057	G	GW				X						
DW-3-B	6/1/23	1042	G	GW				X						
PZ-2-A	6/1/23	0848	G	GW				X						
PZ-2-B	6/1/23	0853	G	GW				X						
MW-14-A	6/1/23	0952	G	GW				X	X					
MW-14-B	6/1/23	0957	G	GW				X	X					
MW-1-A	6/1/23	1200	G	GW					X			X		
(MS) ~~MW-1-B~~ MW-1-B	6/1/23	1205	G	GW					X			X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	6-1-23 / 1333	GLA		06/01/23 1333	EC
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins | Calscience

Client Information	Sampler: NR, CV	Lab PM: ROSSINA	Carrier Tracking No(s):	COC No:
Client Contact: KYLE WELCHANS	Phone: (858) 451-1136	E-Mail: KWELCHANS@GEO-LOGIC.COM		Page: 2 of 2
Company: GEO-LOGIC ASSOCIATES				Job #:
Address: 11415 W BERNARDO G SUITE 200	Due Date Requested:			
City: SAN DIEGO	TAT Requested (days):			
State, Zip: CA 92127				
Phone: (858) 451-1136	PO #:			
Email: KWELCHANS@GEO-LOGIC.COM	WO #:			
Project Name: REPUBLIC SERVICES-SUNSHINE CANYON LANDFILL	Project #: 5022.1032			
Site: SUNSHINE CANYON LANDFILL	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 8260B VOCs	EPA 8260B - Carbon Disulfide	EPA 8260B - Isobutyl Alcohol	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
FIELD BLANK	6/1/23	—	G	LAB H2O			x				
TRIP BLANK	6/1/23	—	G	LAB H2O			x				
MW-13R-A	6/1/23	1154	G	GW				x			
MW-13R-B	6/1/23	1200	G	GW				x			
DW-5-A	6/1/23	1312	G	GW					x		
DW-5-B	6/1/23	1317	G	GW					x		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

	Date:	Time:	Method of Shipment:
Empty Kit Relinquished by:			

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	6-1-23/1333	GLA		06/01/23 1333	EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Geo-Logic ASSOCIATES

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RETEST

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CANYON	**Project No.:**	5022.1032
Well I.D.:	DW-3	**Sampling Date:**	06/01/2023
Collected By:	NR	**Purge start Time:**	1009
Casing Diameter (inches):	4	**Purge Stop time:**	1032
Starting Water Level:	157.11	**Sampling (Well Recovery) Time:**	A: 1037 B: 1042
Total Depth (feet):		**Ending Water Level (feet):**	161.06
Water column (feet):		**Total Purged (gallons):**	2 3/4
Screen Length (feet):		**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 10LLCYV0L		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1016	1/2	158.42	7.06	2.04	0.0	1.26	20.12	184
1019	1	159.20	7.07	2.05	0.0	0.17	20.07	104
1022	1 1/2	159.97	7.04	2.05	0.0	0.00	20.05	69
1024	1 3/4	160.13	7.06	2.05	0.0	0.00	20.06	63
1026	2	160.48	7.07	2.05	0.0	0.00	20.07	54
1028	2 1/4	160.81	7.10	2.05	0.0	0.00	20.04	43
1030	2 1/2	161.02	7.10	2.05	0.0	0.00	20.04	40
1032	2 3/4	161.06	7.10	2.05	0.0	0.00	20.03	36

Purge Sampling Rates: PSI 140 Refill (40) Discharge (15)

Well condition: OK - WATER CLEAR WITH NO ODOR

Additional Info/Comments: OVERCAST, COOL TEMP

Name: NICHOLAS PEARSON **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: DW-3 Date: 06/01/2023

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:

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: _____

Measurment 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 06/01/2023

Signed Title Date

Geo-Logic ASSOCIATES

Geologists • Hydrogeologists • Engineers

* RETEST *

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CANYON	**Project No.:**	S022.1032
Well I.D.:	DW-5	**Sampling Date:**	06/01/2023
Collected By:	NR, CV	**Purge start Time:**	1136
Casing Diameter (inches):	4	**Purge Stop time:**	1306
Starting Water Level:	13.07	**Sampling (Well Recovery) Time:**	A: 1312 B: 1317
Total Depth (feet):	100.45	**Ending Water Level (feet):**	16.69
Water column (feet):	87.38	**Total Purged (gallons):**	2 1/2
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow	BLANKS COLLECTED HERE	
Horiba Model S/N:	U-52/DLLCYV006		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1242	1/2	14.05	8.06	1.66	8.4	0.00	19.63	30
1248	1	14.69	8.03	1.63	11.5	0.00	19.65	-74
1254	1 1/2	15.38	8.02	1.62	6.7	0.06	19.71	-107
1300	2	16.05	8.00	1.62	6.6	0.00	19.71	-122
1303	2 1/4	16.31	7.97	1.62	6.3	0.06	19.75	-126
1306	2 1/2	16.69	7.94	1.62	6.3	0.00	19.75	-130

Purge Sampling Rates: PSI 55 REFILL (30) DISCHARGE (18)

Well condition: OK

Additional Info/Comments: OVERCAST, COOL TEMP

Name: NICHOLAS REASON **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: SUNSHINE CANYON Well ID: DW-5 Date: 06/01/2023

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 APRON IS NOT VISABLE (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: _____

Measurment 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: _____ FIELD TECH 06/01/2023

Signed Title Date

Geo-Logic ASSOCIATES

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RETEST

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CANYON	**Project No.:**	S022-1032
Well I.D.:	MW-1	**Sampling Date:**	06/01/2023
Collected By:	NR	**Purge start Time:**	1125
Casing Diameter (inches):	4	**Purge Stop time:**	1155
Starting Water Level:	13.91	**Sampling (Well Recovery) Time:**	A: 1200 B: 1205
Total Depth (feet):	28.85	**Ending Water Level (feet):**	14.14
Water column (feet):	14.94	**Total Purged (gallons):**	3¼
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52/DLLGYV8L6		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1131	½	14.12	6.64	5.82	OR	0.04	19.94	244
1134	1	14.12	6.62	5.68	OR	0.00	20.03	189
1138	1½	14.13	6.60	5.20	OR	0.00	20.05	82
1141	2	14.13	6.60	4.66	525	0.00	19.99	6
1145	2½	14.15	6.60	4.29	337	0.00	19.92	-33
1149	3	14.15	6.59	4.20	271	0.00	19.90	-34
1151	3¼	14.15	6.59	4.18	250	0.00	19.89	-39
1153	3½	14.15	6.59	4.17	245	0.00	19.90	-40
1155	3¾	14.14	6.59	4.17	239	0.00	19.89	-42

Purge Sampling Rates: 20 PSI REFILL (30) DISCHARGE (9)

Well condition: OK - WATER HAS DARK ORANGE COLOR WITH NO ODOR

Additional Info/Comments: OVERCAST, COOL TEMP

Name: NICHOLAS REASON **Signature:**

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	S022.1032
Well I.D.:	MW-13R	**Sampling Date:**	6-1-23
Collected By:	CV	**Purge start Time:**	1049
Casing Diameter (inches):	4	**Purge Stop time:**	1143
Starting Water Level:	16.14	**Sampling (Well Recovery) Time:**	A: 1154 B: 1200
Total Depth (feet):	28.47	**Ending Water Level (feet):**	16.66
Water column (feet):	12.33	**Total Purged (gallons):**	2 1/2
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 WGGP8GPS		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1100	1/2	16.36	7.39	2.27	82.2	14.48	21.15	-393
1106	3/4	16.38	7.38	2.26	74.2	13.16	21.22	-396
1112	1	16.40	7.37	2.26	74.6	11.61	21.28	-396
1118	1 1/4	16.46	7.36	2.25	71.6	10.34	21.33	-397
1123	1 1/2	16.52	7.36	2.25	70.2	9.48	21.39	-397
1128	1 3/4	16.58	7.36	2.25	70.0	8.55	21.45	-397
1133	2	16.55	7.35	2.25	70.1	8.31	21.50	-397
1138	2 1/4	16.58	7.35	2.25	69.8	8.23	21.50	-396
1143	2 1/2	16.60	7.34	2.24	70.2	8.30	21.53	-392

Purge Sampling Rates: 30 PSI Refill 30 DIS (6)

Low Yield!

Well condition: OK, Required carrying Equipment to well, Heavy Traffic next to well, Heavy Brakes Odor in Air

Additional Info/Comments: Overcast, cool, slight Breeze

well has Heavy odor. water Dark Yellow / Brown color, Sulfur odor

Name: Christian Valenzuela **Signature:** Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-13R Date: 6-1-23

Access:

Accessibility: Good: _____ Fair: V Poor: _____

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

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

Remarks: Required carrying Equipment to well

Concrete Pad:

Integrity: Good: V Inadequate: _____

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

Remarks:

Protective Outer Casing: Material: metal

Condition of Protective Casing: Good: V Damaged: _____

Condition of Locking Cap: Good: V Damaged: _____

Condition of Lock: Good: V Damaged: _____

Condition of Weepholes: Good: V Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: V Damaged: _____

Condition of Riser Cap: Good: V Damaged: _____

Measurment reference point: Yes: V No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: V Damaged: _____ Missing: _____

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

Remarks:

Field Certification: [signature] Field Tech 6-1-23

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1032
Well I.D.:	MW-14	**Sampling Date:**	6-1-23
Collected By:	CV	**Purge start Time:**	0933
Casing Diameter (inches):	4	**Purge Stop time:**	0949
Starting Water Level:	13.98	**Sampling (Well Recovery) Time:**	~~A:0952~~ B:0957
Total Depth (feet):	27.35	**Ending Water Level (feet):**	14.40
Water column (feet):	13.37	**Total Purged (gallons):**	3
Screen Length (feet):	-	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 WGGP8GR5		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0939	1	14.32	6.74	6.10	0.0	7.08	20.51	258
0940	1 1/4	14.35	6.73	6.10	0.0	6.88	20.49	251
0942	1 1/2	14.35	6.72	6.10	0.0	6.74	20.48	248
0943	1 3/4	14.37	6.71	6.17	0.0	6.09	20.54	243
0945	2	14.35	6.70	6.16	0.0	1.07	20.56	241
0946	2 1/4	14.41	6.70	6.16	0.0	0.90	20.53	238
0947	2 1/2	14.42	6.70	6.16	0.0	0.86	20.52	236
0948	2 3/4	14.40	6.70	6.16	0.0	0.84	20.51	233
0949	3	14.40	6.70	6.16	0.0	0.81	20.51	232

Purge Sampling Rates: 25 psi Refill 25 dis 10

Well condition: OK, * ROOTS all over sounder when Pulled out *

Additional Info/Comments: Overcast, cool, Heavy traffic northEast of well.

Name: Christian Valenzuela **Signature:** Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-14 Date: 6-1-23

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 sampling Equipment Down slope with Heavy vegetation. Lots of thorn Bushes around well!

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

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

Remarks: some soil on pad APX 3/4 inch

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: _____

Measurment 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 6-1-23

Signed Title Date

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1032
Well I.D.:	PZ-2	**Sampling Date:**	6-1-23
Collected By:	CV	**Purge start Time:**	0818
Casing Diameter (inches):	2	**Purge Stop time:**	0845
Starting Water Level:	119.70	**Sampling (Well Recovery) Time:**	A-0848 - B-0853
Total Depth (feet):	157.53	**Ending Water Level (feet):**	126.38
Water column (feet):	37.83	**Total Purged (gallons):**	2 1/4
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 WGG P8GR5		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0824	1/2	121.95	8.47	5.64	0.0	1.44	24.16	-60
0832	1 1/4	123.15	8.61	5.64	0.0	1.02	24.19	-27
0836	1 1/2	124.64	8.61	5.64	0.0	1.00	24.21	-27
0839	1 3/4	124.99	8.62	5.64	0.0	1.02	24.23	-26
0842	2	125.77	8.61	5.63	0.0	1.00	24.25	-25
0845	2 1/4	126.38	8.61	5.63	0.0	1.01	24.26	-25

Purge Sampling Rates: 80 psi Ref: 1130 Dis 20

Well condition: OK

Additional Info/Comments: Overcast, cool

Name: Christian Valenzuela **Signature:** Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: PZ-2 Date: 6-1-23

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 equipment through/across concrete channel.

Concrete Pad:

Integrity: Good: _____ Inadequate: _____

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

Remarks: No concrete pad

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: _____

Measurment 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: christa [signature] Field Tech 6-1-23

Signed Title Date

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CYN	**Project No.:**	S022.1032
Well I.D.:	PZ-4	**Sampling Date:**	06/01/2023
Collected By:	NR	**Purge start Time:**	0835
Casing Diameter (inches):	2	**Purge Stop time:**	0859
Starting Water Level:	109.77	**Sampling (Well Recovery) Time:**	A: 0909 B: 0914
Total Depth (feet):		**Ending Water Level (feet):**	113.69
Water column (feet):		**Total Purged (gallons):**	2 1/2
Screen Length (feet):		**Duplicate Sample:**	YES NO
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 DLLCYV06		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0842	1/2	112.31	6.68	1.78	125	1.03	22.83	110
0847	1	112.72	6.68	1.71	20.1	0.26	22.87	57
0851	1 1/2	113.07	6.72	1.70	9.6	0.08	22.51	36
0853	1 3/4	113.20	6.71	1.70	9.7	0.07	22.87	31
0855	2	113.39	6.71	1.69	6.5	0.04	22.89	23
0857	2 1/4	113.56	6.72	1.68	6.5	0.04	22.86	19
0859	2 1/2	113.69	6.72	1.68	6.4	0.02	22.87	16

Purge Sampling Rates: 95 PSI REFILL(30) DISCHARGE (19)

Well condition: OK - WATER MOSTLY CLEAR WITH NO ODOR

Additional Info/Comments: OVERCAST, COOL

Name: NICHOLAS REASON **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: SUNSHINE CANYON Well ID: PZ-4 Date: 06/01/2023

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:

Protective Outer Casing: Material: FLUSHMOUNT

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: N/A Damaged: _____

Condition of Lock: Good: N/A Damaged: _____

Condition of Weepholes: Good: N/A Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment 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: _____ FIELD TECH 6/1/23

Signed Title Date

Geo-Logic
ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon **PROJECT NAME / NUMBER** 5022.1032

Instrument Make/Model #	Horiba U-52 (Dilcy Vee)					
Date/Time 06/01/2023 0730	pH	Electrical Conductivity (µMhos/cm) (4.49 mg/Kg)	Turbidity (NTU) (0)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	4.32	4.48	0.0	9.84		
Calibration	4.00	4.48	0.0	10.32		
Calibration Successful? (Y/N)	Y				enter YES or NO	
Satifies Protocol?	Y				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	NR				Signature or initials	
Physical Condition of Unit	Good					

Geo-Logic ASSOCIATES

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon **PROJECT NAME / NUMBER** 5022.1032

Instrument Make/Model # 4-52 WG-PBGRS						
Date/Time 6-1-23 0633	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	3.89	4.52	0.0	10.10		
Calibration	4.00	4.49	0.0	10.09		
Calibration Successful? (Y/N)	Yes				enter YES or NO	
Satifies Protocol?	Yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	CLV				Signature or initials	
Physical Condition of Unit OK						

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Welchans
Geo-Logic Associates
11415 West Bernardo Court
Suite 200
San Diego, California 92127

Generated 6/13/2023 11:10:39 AM

JOB DESCRIPTION

Republic Sunshine Canyon 2023 GW-retest

JOB NUMBER

570-140333-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

my EOL

Job Notes

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Authorization

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Authorized for release by
Rossina Tomova, Project Manager I
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Definitions/Glossary

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-140333-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-140333-1

Comments
No additional comments.

Receipt
The samples were received on 6/1/2023 5:41 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-334306. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The continuing calibration verification (CCV) associated with batch 570-334306 recovered above the upper control limit for Acetonitrile. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: FIELD BLANK (570-140333-11), TRIP BLANK (570-140333-12) and (CCVIS 570-334306/3).

Method 8260B: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: FIELD BLANK (570-140333-11) and TRIP BLANK (570-140333-12). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-334371. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-334393. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method: 8270_SIM_MS_ID.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: PZ-4-A — Lab Sample ID: 570-140333-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4.6		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	2.4		0.075	0.029	mg/L	1		350.1	Total/NA
Total Dissolved Solids	1400		20	17	mg/L	1		SM 2540C	Total/NA

Client Sample ID: PZ-4-B — Lab Sample ID: 570-140333-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4.8		2.0	0.58	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	2.4		0.075	0.029	mg/L	1		350.1	Total/NA
Total Dissolved Solids	1400		20	17	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DW-3-A — Lab Sample ID: 570-140333-3

No Detections.

Client Sample ID: DW-3-B — Lab Sample ID: 570-140333-4

No Detections.

Client Sample ID: PZ-2-A — Lab Sample ID: 570-140333-5

No Detections.

Client Sample ID: PZ-2-B — Lab Sample ID: 570-140333-6

No Detections.

Client Sample ID: MW-14-A — Lab Sample ID: 570-140333-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chemical Oxygen Demand	38	J	100	14	mg/L	1		410.4	Total/NA
Total Dissolved Solids	6700		100	87	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-14-B — Lab Sample ID: 570-140333-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chemical Oxygen Demand	33	J	100	14	mg/L	1		410.4	Total/NA
Total Dissolved Solids	6800		100	87	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-1-A — Lab Sample ID: 570-140333-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	260		20	7.2	mg/L	20		300.0	Total/NA
Total Dissolved Solids	3800		50	44	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-1-B — Lab Sample ID: 570-140333-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	270		20	7.2	mg/L	20		300.0	Total/NA
Total Dissolved Solids	3500		50	44	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FIELD BLANK — Lab Sample ID: 570-140333-11

No Detections.

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: TRIP BLANK — Lab Sample ID: 570-140333-12

No Detections.

Client Sample ID: MW-13R-A — Lab Sample ID: 570-140333-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.38	J	1.0	0.32	ug/L	1		8260B	Total/NA

Client Sample ID: MW-13R-B — Lab Sample ID: 570-140333-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.54	J	1.0	0.32	ug/L	1		8260B	Total/NA

Client Sample ID: DW-5-A — Lab Sample ID: 570-140333-15

No Detections.

Client Sample ID: DW-5-B — Lab Sample ID: 570-140333-16

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: PZ-4-A
Date Collected: 06/01/23 09:09
Date Received: 06/01/23 17:41

Lab Sample ID: 570-140333-1
Matrix: Water

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.27	ug/L		06/05/23 08:14	06/07/23 10:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*42*		*21 - 120*	*06/05/23 08:14*	*06/07/23 10:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*102*		*58 - 135*	*06/05/23 08:14*	*06/07/23 10:50*	*1*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**4.6**		2.0	0.58	mg/L		06/05/23 07:34	06/06/23 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**2.4**		0.075	0.029	mg/L		06/09/23 12:20	06/09/23 14:04	1
Chemical Oxygen Demand (EPA 410.4)	ND		100	14	mg/L		06/07/23 11:56	06/07/23 13:30	1
Total Dissolved Solids (SM 2540C)	**1400**		20	17	mg/L			06/07/23 18:49	1

Client Sample Results

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: PZ-4-B
Date Collected: 06/01/23 09:14
Date Received: 06/01/23 17:41

Lab Sample ID: 570-140333-2
Matrix: Water

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.38	0.26	ug/L		06/05/23 08:14	06/07/23 11:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*43*		*21 - 120*	*06/05/23 08:14*	*06/07/23 11:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*96*		*58 - 135*	*06/05/23 08:14*	*06/07/23 11:05*	*1*

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**4.8**		2.0	0.58	mg/L		06/05/23 07:34	06/06/23 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**2.4**		0.075	0.029	mg/L		06/09/23 12:20	06/09/23 14:05	1
Chemical Oxygen Demand (EPA 410.4)	ND		100	14	mg/L		06/07/23 11:56	06/07/23 13:30	1
Total Dissolved Solids (SM 2540C)	**1400**		20	17	mg/L			06/07/23 18:49	1

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: DW-3-A
Lab Sample ID: 570-140333-3
Date Collected: 06/01/23 10:37
Matrix: Water
Date Received: 06/01/23 17:41

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	ND		100	14	mg/L		06/07/23 11:56	06/07/23 13:30	1

Client Sample Results

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: DW-3-B
Lab Sample ID: 570-140333-4
Date Collected: 06/01/23 10:42
Matrix: Water
Date Received: 06/01/23 17:41

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	ND		100	14	mg/L		06/07/23 11:56	06/07/23 13:30	1

Client Sample Results

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: PZ-2-A
Lab Sample ID: 570-140333-5
Date Collected: 06/01/23 08:48
Matrix: Water
Date Received: 06/01/23 17:41

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	ND		100	14	mg/L		06/07/23 11:56	06/07/23 13:30	1

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: PZ-2-B
Lab Sample ID: 570-140333-6
Date Collected: 06/01/23 08:53
Matrix: Water
Date Received: 06/01/23 17:41

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	ND		100	14	mg/L		06/07/23 11:56	06/07/23 13:30	1

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: MW-14-A
Lab Sample ID: 570-140333-7
Date Collected: 06/01/23 09:52
Matrix: Water
Date Received: 06/01/23 17:41

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	38	J	100	14	mg/L		06/07/23 11:56	06/07/23 13:30	1
Total Dissolved Solids (SM 2540C)	6700		100	87	mg/L			06/07/23 18:49	1

Client Sample Results

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: MW-14-B
Date Collected: 06/01/23 09:57
Date Received: 06/01/23 17:41

Lab Sample ID: 570-140333-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	33	J	100	14	mg/L		06/07/23 11:56	06/07/23 13:30	1
Total Dissolved Solids (SM 2540C)	6800		100	87	mg/L			06/07/23 18:49	1

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: MW-1-A
Lab Sample ID: 570-140333-9
Date Collected: 06/01/23 12:00
Matrix: Water
Date Received: 06/01/23 17:41

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		20	7.2	mg/L			06/05/23 15:25	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3800		50	44	mg/L			06/07/23 18:49	1

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: MW-1-B
Lab Sample ID: 570-140333-10
Date Collected: 06/01/23 12:05
Matrix: Water
Date Received: 06/01/23 17:41

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		20	7.2	mg/L			06/05/23 15:42	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3500		50	44	mg/L			06/07/23 18:49	1

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: FIELD BLANK
Lab Sample ID: 570-140333-11
Date Collected: 06/01/23 00:00
Matrix: Water
Date Received: 06/01/23 17:41

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/03/23 16:27	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/03/23 16:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/03/23 16:27	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/03/23 16:27	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/03/23 16:27	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/03/23 16:27	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/03/23 16:27	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/03/23 16:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/03/23 16:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/03/23 16:27	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/03/23 16:27	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/03/23 16:27	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/03/23 16:27	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/03/23 16:27	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/03/23 16:27	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/03/23 16:27	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/03/23 16:27	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/03/23 16:27	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/03/23 16:27	1
2-Hexanone	ND		6.0	2.0	ug/L			06/03/23 16:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/03/23 16:27	1
Acetone	ND		8.0	3.6	ug/L			06/03/23 16:27	1
Acetonitrile	ND		10	3.9	ug/L			06/03/23 16:27	1
Allyl chloride	ND		2.0	0.47	ug/L			06/03/23 16:27	1
Benzene	ND		0.50	0.14	ug/L			06/03/23 16:27	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/03/23 16:27	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/03/23 16:27	1
Bromoform	ND		0.50	0.28	ug/L			06/03/23 16:27	1
Bromomethane	ND		2.0	1.9	ug/L			06/03/23 16:27	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/03/23 16:27	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/03/23 16:27	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/03/23 16:27	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/03/23 16:27	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/03/23 16:27	1
Chloroethane	ND		0.50	0.38	ug/L			06/03/23 16:27	1
Chloroform	ND		0.50	0.17	ug/L			06/03/23 16:27	1
Chloromethane	ND		1.0	0.65	ug/L			06/03/23 16:27	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/03/23 16:27	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/03/23 16:27	1
Dibromomethane	ND		0.50	0.16	ug/L			06/03/23 16:27	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/03/23 16:27	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/03/23 16:27	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/03/23 16:27	1
Iodomethane	ND		25	8.7	ug/L			06/03/23 16:27	1
Isobutyl alcohol	ND		50	35	ug/L			06/03/23 16:27	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/03/23 16:27	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/03/23 16:27	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/03/23 16:27	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/03/23 16:27	1

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: FIELD BLANK
Lab Sample ID: 570-140333-11
Date Collected: 06/01/23 00:00
Matrix: Water
Date Received: 06/01/23 17:41

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/03/23 16:27	1
o-Xylene	ND		0.50	0.18	ug/L			06/03/23 16:27	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/03/23 16:27	1
Propionitrile	ND		5.0	3.1	ug/L			06/03/23 16:27	1
Styrene	ND		0.50	0.27	ug/L			06/03/23 16:27	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/03/23 16:27	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/03/23 16:27	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/03/23 16:27	1
t-Butanol	ND		5.0	3.1	ug/L			06/03/23 16:27	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/03/23 16:27	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/03/23 16:27	1
Toluene	ND		0.50	0.14	ug/L			06/03/23 16:27	1
Trichloroethene	ND		0.50	0.15	ug/L			06/03/23 16:27	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/03/23 16:27	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/03/23 16:27	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/03/23 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 132*		*06/03/23 16:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 120*		*06/03/23 16:27*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*06/03/23 16:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/03/23 16:27*	*1*

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: TRIP BLANK
Lab Sample ID: 570-140333-12
Date Collected: 06/01/23 00:00
Matrix: Water
Date Received: 06/01/23 17:41

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/03/23 16:52	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/03/23 16:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/03/23 16:52	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/03/23 16:52	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/03/23 16:52	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/03/23 16:52	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/03/23 16:52	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/03/23 16:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/03/23 16:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/03/23 16:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/03/23 16:52	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/03/23 16:52	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/03/23 16:52	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/03/23 16:52	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/03/23 16:52	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/03/23 16:52	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/03/23 16:52	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/03/23 16:52	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/03/23 16:52	1
2-Hexanone	ND		6.0	2.0	ug/L			06/03/23 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/03/23 16:52	1
Acetone	ND		8.0	3.6	ug/L			06/03/23 16:52	1
Acetonitrile	ND		10	3.9	ug/L			06/03/23 16:52	1
Allyl chloride	ND		2.0	0.47	ug/L			06/03/23 16:52	1
Benzene	ND		0.50	0.14	ug/L			06/03/23 16:52	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/03/23 16:52	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/03/23 16:52	1
Bromoform	ND		0.50	0.28	ug/L			06/03/23 16:52	1
Bromomethane	ND		2.0	1.9	ug/L			06/03/23 16:52	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/03/23 16:52	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/03/23 16:52	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/03/23 16:52	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/03/23 16:52	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/03/23 16:52	1
Chloroethane	ND		0.50	0.38	ug/L			06/03/23 16:52	1
Chloroform	ND		0.50	0.17	ug/L			06/03/23 16:52	1
Chloromethane	ND		1.0	0.65	ug/L			06/03/23 16:52	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/03/23 16:52	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/03/23 16:52	1
Dibromomethane	ND		0.50	0.16	ug/L			06/03/23 16:52	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/03/23 16:52	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/03/23 16:52	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/03/23 16:52	1
Iodomethane	ND		25	8.7	ug/L			06/03/23 16:52	1
Isobutyl alcohol	ND		50	35	ug/L			06/03/23 16:52	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/03/23 16:52	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/03/23 16:52	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/03/23 16:52	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/03/23 16:52	1

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: TRIP BLANK
Lab Sample ID: 570-140333-12
Date Collected: 06/01/23 00:00
Matrix: Water
Date Received: 06/01/23 17:41

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/03/23 16:52	1
o-Xylene	ND		0.50	0.18	ug/L			06/03/23 16:52	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/03/23 16:52	1
Propionitrile	ND		5.0	3.1	ug/L			06/03/23 16:52	1
Styrene	ND		0.50	0.27	ug/L			06/03/23 16:52	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/03/23 16:52	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/03/23 16:52	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/03/23 16:52	1
t-Butanol	ND		5.0	3.1	ug/L			06/03/23 16:52	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/03/23 16:52	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/03/23 16:52	1
Toluene	ND		0.50	0.14	ug/L			06/03/23 16:52	1
Trichloroethene	ND		0.50	0.15	ug/L			06/03/23 16:52	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/03/23 16:52	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/03/23 16:52	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/03/23 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 132*		*06/03/23 16:52*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 120*		*06/03/23 16:52*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/03/23 16:52*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/03/23 16:52*	*1*

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: MW-13R-A
Lab Sample ID: 570-140333-13
Date Collected: 06/01/23 11:54
Matrix: Water
Date Received: 06/01/23 17:41

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.38	J	1.0	0.32	ug/L			06/05/23 16:06	1

Client Sample Results

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: MW-13R-B
Lab Sample ID: 570-140333-14
Date Collected: 06/01/23 12:00
Matrix: Water
Date Received: 06/01/23 17:41

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.54	J	1.0	0.32	ug/L			06/05/23 16:31	1

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: DW-5-A
Lab Sample ID: 570-140333-15
Date Collected: 06/01/23 13:12
Matrix: Water
Date Received: 06/01/23 17:41

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/05/23 16:56	1

Client Sample Results

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: DW-5-B
Lab Sample ID: 570-140333-16
Date Collected: 06/01/23 13:17
Matrix: Water
Date Received: 06/01/23 17:41

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/05/23 17:21	1

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Job ID: 570-140333-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-132)	(76-120)	(80-120)	(80-120)
570-140333-11	FIELD BLANK	106	101	100	99
570-140333-12	TRIP BLANK	106	101	101	98
LCS 570-334306/4	Lab Control Sample	100	105	95	99
LCS 570-334371/4	Lab Control Sample	92	106	94	98
LCSD 570-334306/5	Lab Control Sample Dup	99	107	97	97
LCSD 570-334371/5	Lab Control Sample Dup	95	106	94	98
MB 570-334306/7	Method Blank	104	103	100	98
MB 570-334371/7	Method Blank	100	103	96	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		NBZ
Lab Sample ID	Client Sample ID	(58-135)
570-140333-1	PZ-4-A	102
570-140333-2	PZ-4-B	96
LCS 570-334393/2-A	Lab Control Sample	93
LCSD 570-334393/3-A	Lab Control Sample Dup	89
MB 570-334393/1-A	Method Blank	82

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

Isotope Dilution Summary

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**DXE (21-120)**
570-140333-1	PZ-4-A	42
570-140333-2	PZ-4-B	43
LCS 570-334393/2-A	Lab Control Sample	36
LCSD 570-334393/3-A	Lab Control Sample Dup	37
MB 570-334393/1-A	Method Blank	53

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-334306/7
Matrix: Water
Analysis Batch: 334306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/03/23 13:33	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/03/23 13:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/03/23 13:33	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/03/23 13:33	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/03/23 13:33	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/03/23 13:33	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/03/23 13:33	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/03/23 13:33	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/03/23 13:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/03/23 13:33	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/03/23 13:33	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/03/23 13:33	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/03/23 13:33	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/03/23 13:33	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/03/23 13:33	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/03/23 13:33	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/03/23 13:33	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/03/23 13:33	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/03/23 13:33	1
2-Hexanone	ND		6.0	2.0	ug/L			06/03/23 13:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/03/23 13:33	1
Acetone	ND		8.0	3.6	ug/L			06/03/23 13:33	1
Acetonitrile	ND		10	3.9	ug/L			06/03/23 13:33	1
Allyl chloride	ND		2.0	0.47	ug/L			06/03/23 13:33	1
Benzene	ND		0.50	0.14	ug/L			06/03/23 13:33	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/03/23 13:33	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/03/23 13:33	1
Bromoform	ND		0.50	0.28	ug/L			06/03/23 13:33	1
Bromomethane	ND		2.0	1.9	ug/L			06/03/23 13:33	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/03/23 13:33	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/03/23 13:33	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/03/23 13:33	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/03/23 13:33	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/03/23 13:33	1
Chloroethane	ND		0.50	0.38	ug/L			06/03/23 13:33	1
Chloroform	ND		0.50	0.17	ug/L			06/03/23 13:33	1
Chloromethane	ND		1.0	0.65	ug/L			06/03/23 13:33	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/03/23 13:33	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/03/23 13:33	1
Dibromomethane	ND		0.50	0.16	ug/L			06/03/23 13:33	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/03/23 13:33	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/03/23 13:33	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/03/23 13:33	1
Iodomethane	ND		25	8.7	ug/L			06/03/23 13:33	1
Isobutyl alcohol	ND		50	35	ug/L			06/03/23 13:33	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/03/23 13:33	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/03/23 13:33	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/03/23 13:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-334306/7
Matrix: Water
Analysis Batch: 334306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/03/23 13:33	1
Naphthalene	ND		1.0	0.55	ug/L			06/03/23 13:33	1
o-Xylene	ND		0.50	0.18	ug/L			06/03/23 13:33	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/03/23 13:33	1
Propionitrile	ND		5.0	3.1	ug/L			06/03/23 13:33	1
Styrene	ND		0.50	0.27	ug/L			06/03/23 13:33	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/03/23 13:33	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/03/23 13:33	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/03/23 13:33	1
t-Butanol	ND		5.0	3.1	ug/L			06/03/23 13:33	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/03/23 13:33	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/03/23 13:33	1
Toluene	ND		0.50	0.14	ug/L			06/03/23 13:33	1
Trichloroethene	ND		0.50	0.15	ug/L			06/03/23 13:33	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/03/23 13:33	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/03/23 13:33	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/03/23 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 132*		*06/03/23 13:33*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 120*		*06/03/23 13:33*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*06/03/23 13:33*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/03/23 13:33*	*1*

Lab Sample ID: LCS 570-334306/4
Matrix: Water
Analysis Batch: 334306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	10.9		ug/L		109	80 - 125
1,1,1-Trichloroethane	10.0	10.0		ug/L		100	75 - 121
1,1,2,2-Tetrachloroethane	10.0	11.5		ug/L		115	80 - 120
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	80 - 121
1,1-Dichloroethane	10.0	10.8		ug/L		108	80 - 120
1,1-Dichloroethene	10.0	9.48		ug/L		95	80 - 126
1,1-Dichloropropene	10.0	10.0		ug/L		100	72 - 122
1,2,3-Trichloropropane	10.0	10.6		ug/L		106	75 - 127
1,2,4-Trichlorobenzene	10.0	11.7		ug/L		117	80 - 124
1,2-Dibromo-3-Chloropropane	10.0	10.7		ug/L		107	63 - 123
1,2-Dibromoethane (EDB)	10.0	10.4		ug/L		104	80 - 125
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,2-Dichloroethane	10.0	11.0		ug/L		110	76 - 130
1,2-Dichloropropane	10.0	11.1		ug/L		111	74 - 124
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,3-Dichloropropane	10.0	10.9		ug/L		109	80 - 121
1,4-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120
2,2-Dichloropropane	10.0	10.9		ug/L		109	79 - 131
2-Butanone (MEK)	10.0	11.6		ug/L		116	48 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-334306/4
Matrix: Water
Analysis Batch: 334306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Hexanone	10.0	12.5		ug/L		125	50 - 149
4-Methyl-2-pentanone (MIBK)	10.0	11.2		ug/L		112	63 - 120
Acetone	10.0	11.4		ug/L		114	45 - 139
Benzene	10.0	10.1		ug/L		101	80 - 120
Bromochloromethane	10.0	10.0		ug/L		100	80 - 120
Bromodichloromethane	10.0	10.5		ug/L		105	73 - 131
Bromoform	10.0	11.4		ug/L		114	76 - 124
Bromomethane	10.0	7.88		ug/L		79	26 - 180
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	80 - 120
cis-1,3-Dichloropropene	10.0	10.2		ug/L		102	76 - 123
Carbon disulfide	10.0	9.98		ug/L		100	75 - 123
Carbon tetrachloride	10.0	10.3		ug/L		103	61 - 139
Chlorobenzene	10.0	10.4		ug/L		104	80 - 120
Chloroethane	10.0	10.5		ug/L		105	54 - 150
Chloroform	10.0	9.61		ug/L		96	80 - 120
Chloromethane	10.0	11.5		ug/L		115	28 - 151
Dibromochloromethane	10.0	10.9		ug/L		109	74 - 136
Dibromomethane	10.0	10.2		ug/L		102	80 - 122
Dichlorodifluoromethane	10.0	8.71		ug/L		87	27 - 154
Ethylbenzene	10.0	10.5		ug/L		105	80 - 126
Methylene Chloride	10.0	10.1		ug/L		101	80 - 120
Methyl tert-butyl ether	10.0	10.6		ug/L		106	69 - 128
Naphthalene	10.0	10.5		ug/L		105	70 - 130
o-Xylene	10.0	10.4		ug/L		104	80 - 124
m,p-Xylene	20.0	21.6		ug/L		108	80 - 123
Styrene	10.0	9.75		ug/L		98	80 - 121
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	79 - 120
trans-1,3-Dichloropropene	10.0	11.3		ug/L		113	80 - 126
t-Butanol	50.0	61.5		ug/L		123	68 - 133
Tetrachloroethene	10.0	11.1		ug/L		111	80 - 125
Toluene	10.0	10.1		ug/L		101	80 - 120
Trichloroethene	10.0	10.1		ug/L		101	77 - 124
Trichlorofluoromethane	10.0	6.83		ug/L		68	41 - 163
Vinyl acetate	10.0	11.1		ug/L		111	61 - 126
Vinyl chloride	10.0	9.13		ug/L		91	50 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 132*
4-Bromofluorobenzene (Surr)	*105*		*76 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 570-334306/5
Matrix: Water
Analysis Batch: 334306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	11.2		ug/L		112	80 - 125	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-334306/5
Matrix: Water
Analysis Batch: 334306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			10.0	10.5		ug/L		105	75 - 121	5	20
1,1,2,2-Tetrachloroethane			10.0	11.0		ug/L		110	80 - 120	4	20
1,1,2-Trichloroethane			10.0	10.8		ug/L		108	80 - 121	4	20
1,1-Dichloroethane			10.0	11.2		ug/L		112	80 - 120	4	20
1,1-Dichloroethene			10.0	9.99		ug/L		100	80 - 126	5	21
1,1-Dichloropropene			10.0	10.6		ug/L		106	72 - 122	5	20
1,2,3-Trichloropropane			10.0	10.9		ug/L		109	75 - 127	3	20
1,2,4-Trichlorobenzene			10.0	12.1		ug/L		121	80 - 124	3	20
1,2-Dibromo-3-Chloropropane			10.0	9.80		ug/L		98	63 - 123	9	20
1,2-Dibromoethane (EDB)			10.0	10.7		ug/L		107	80 - 125	3	20
1,2-Dichlorobenzene			10.0	10.5		ug/L		105	80 - 120	1	20
1,2-Dichloroethane			10.0	11.0		ug/L		110	76 - 130	0	20
1,2-Dichloropropane			10.0	11.2		ug/L		112	74 - 124	1	20
1,3-Dichlorobenzene			10.0	10.7		ug/L		107	80 - 120	2	20
1,3-Dichloropropane			10.0	11.2		ug/L		112	80 - 121	3	20
1,4-Dichlorobenzene			10.0	10.5		ug/L		105	80 - 120	1	20
2,2-Dichloropropane			10.0	11.3		ug/L		113	79 - 131	4	20
2-Butanone (MEK)			10.0	12.1		ug/L		121	48 - 145	5	30
2-Hexanone			10.0	12.0		ug/L		120	50 - 149	4	29
4-Methyl-2-pentanone (MIBK)			10.0	11.0		ug/L		110	63 - 120	1	20
Acetone			10.0	10.3		ug/L		103	45 - 139	11	30
Benzene			10.0	10.6		ug/L		106	80 - 120	5	20
Bromochloromethane			10.0	10.1		ug/L		101	80 - 120	0	20
Bromodichloromethane			10.0	10.7		ug/L		107	73 - 131	1	20
Bromoform			10.0	11.5		ug/L		115	76 - 124	1	20
Bromomethane			10.0	8.00		ug/L		80	26 - 180	2	20
cis-1,2-Dichloroethene			10.0	10.4		ug/L		104	80 - 120	2	20
cis-1,3-Dichloropropene			10.0	10.4		ug/L		104	76 - 123	2	20
Carbon disulfide			10.0	10.6		ug/L		106	75 - 123	6	20
Carbon tetrachloride			10.0	10.8		ug/L		108	61 - 139	4	20
Chlorobenzene			10.0	10.7		ug/L		107	80 - 120	3	20
Chloroethane			10.0	10.4		ug/L		104	54 - 150	0	25
Chloroform			10.0	9.84		ug/L		98	80 - 120	2	20
Chloromethane			10.0	12.1		ug/L		121	28 - 151	5	20
Dibromochloromethane			10.0	11.1		ug/L		111	74 - 136	2	20
Dibromomethane			10.0	10.4		ug/L		104	80 - 122	3	20
Dichlorodifluoromethane			10.0	9.40		ug/L		94	27 - 154	8	21
Ethylbenzene			10.0	11.1		ug/L		111	80 - 126	6	20
Methylene Chloride			10.0	10.4		ug/L		104	80 - 120	2	20
Methyl tert-butyl ether			10.0	10.7		ug/L		107	69 - 128	1	20
Naphthalene			10.0	10.5		ug/L		105	70 - 130	1	20
o-Xylene			10.0	10.8		ug/L		108	80 - 124	4	20
m,p-Xylene			20.0	22.6		ug/L		113	80 - 123	5	20
Styrene			10.0	10.1		ug/L		101	80 - 121	4	20
trans-1,2-Dichloroethene			10.0	10.7		ug/L		107	79 - 120	4	20
trans-1,3-Dichloropropene			10.0	11.5		ug/L		115	80 - 126	2	20
t-Butanol			50.0	65.2		ug/L		130	68 - 133	6	21
Tetrachloroethene			10.0	11.7		ug/L		117	80 - 125	5	20
Toluene			10.0	10.5		ug/L		105	80 - 120	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-334306/5
Matrix: Water
Analysis Batch: 334306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene			10.0	10.5		ug/L		105	77 - 124	4	20
Trichlorofluoromethane			10.0	7.24		ug/L		72	41 - 163	6	21
Vinyl acetate			10.0	11.1		ug/L		111	61 - 126	0	24
Vinyl chloride			10.0	9.69		ug/L		97	50 - 160	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 132*
4-Bromofluorobenzene (Surr)	*107*		*76 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 570-334371/7
Matrix: Water
Analysis Batch: 334371

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/05/23 09:02	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/05/23 09:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/05/23 09:02	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/05/23 09:02	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/05/23 09:02	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/05/23 09:02	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/05/23 09:02	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/05/23 09:02	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/05/23 09:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/05/23 09:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/05/23 09:02	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/05/23 09:02	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/05/23 09:02	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/05/23 09:02	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/05/23 09:02	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/05/23 09:02	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/05/23 09:02	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/05/23 09:02	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/05/23 09:02	1
2-Hexanone	ND		6.0	2.0	ug/L			06/05/23 09:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/05/23 09:02	1
Acetone	ND		8.0	3.6	ug/L			06/05/23 09:02	1
Benzene	ND		0.50	0.14	ug/L			06/05/23 09:02	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/05/23 09:02	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/05/23 09:02	1
Bromoform	ND		0.50	0.28	ug/L			06/05/23 09:02	1
Bromomethane	ND		2.0	1.9	ug/L			06/05/23 09:02	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/05/23 09:02	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/05/23 09:02	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/05/23 09:02	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/05/23 09:02	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/05/23 09:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-334371/7
Matrix: Water
Analysis Batch: 334371

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.50	0.38	ug/L			06/05/23 09:02	1
Chloroform	ND		0.50	0.17	ug/L			06/05/23 09:02	1
Chloromethane	ND		1.0	0.65	ug/L			06/05/23 09:02	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/05/23 09:02	1
Dibromomethane	ND		0.50	0.16	ug/L			06/05/23 09:02	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/05/23 09:02	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/05/23 09:02	1
Isobutyl alcohol	ND		50	35	ug/L			06/05/23 09:02	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/05/23 09:02	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/05/23 09:02	1
Naphthalene	ND		1.0	0.55	ug/L			06/05/23 09:02	1
o-Xylene	ND		0.50	0.18	ug/L			06/05/23 09:02	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/05/23 09:02	1
Styrene	ND		0.50	0.27	ug/L			06/05/23 09:02	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/05/23 09:02	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/05/23 09:02	1
t-Butanol	ND		5.0	3.1	ug/L			06/05/23 09:02	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/05/23 09:02	1
Toluene	ND		0.50	0.14	ug/L			06/05/23 09:02	1
Trichloroethene	ND		0.50	0.15	ug/L			06/05/23 09:02	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/05/23 09:02	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/05/23 09:02	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/05/23 09:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 132*		*06/05/23 09:02*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 120*		*06/05/23 09:02*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*06/05/23 09:02*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/05/23 09:02*	*1*

Lab Sample ID: LCS 570-334371/4
Matrix: Water
Analysis Batch: 334371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	10.9		ug/L		109	80 - 125
1,1,1-Trichloroethane	10.0	10.1		ug/L		101	75 - 121
1,1,2,2-Tetrachloroethane	10.0	10.9		ug/L		109	80 - 120
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	80 - 121
1,1-Dichloroethane	10.0	10.8		ug/L		108	80 - 120
1,1-Dichloroethene	10.0	8.71		ug/L		87	80 - 126
1,1-Dichloropropene	10.0	9.92		ug/L		99	72 - 122
1,2,3-Trichloropropane	10.0	10.4		ug/L		104	75 - 127
1,2,4-Trichlorobenzene	10.0	12.3		ug/L		123	80 - 124
1,2-Dibromo-3-Chloropropane	10.0	9.60		ug/L		96	63 - 123
1,2-Dibromoethane (EDB)	10.0	10.4		ug/L		104	80 - 125
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,2-Dichloroethane	10.0	10.4		ug/L		104	76 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-334371/4
Matrix: Water
Analysis Batch: 334371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	10.0	11.2		ug/L		112	74 - 124
1,3-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
1,3-Dichloropropane	10.0	10.8		ug/L		108	80 - 121
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
2,2-Dichloropropane	10.0	11.4		ug/L		114	79 - 131
2-Butanone (MEK)	10.0	9.95		ug/L		99	48 - 145
2-Hexanone	10.0	10.5		ug/L		105	50 - 149
4-Methyl-2-pentanone (MIBK)	10.0	10.4		ug/L		104	63 - 120
Acetone	10.0	7.53	J	ug/L		75	45 - 139
Benzene	10.0	10.3		ug/L		103	80 - 120
Bromochloromethane	10.0	9.79		ug/L		98	80 - 120
Bromodichloromethane	10.0	10.3		ug/L		103	73 - 131
Bromoform	10.0	11.4		ug/L		114	76 - 124
Bromomethane	10.0	6.41		ug/L		64	26 - 180
cis-1,2-Dichloroethene	10.0	9.99		ug/L		100	80 - 120
cis-1,3-Dichloropropene	10.0	10.4		ug/L		104	76 - 123
Carbon disulfide	10.0	9.93		ug/L		99	75 - 123
Carbon tetrachloride	10.0	10.2		ug/L		102	61 - 139
Chlorobenzene	10.0	10.6		ug/L		106	80 - 120
Chloroethane	10.0	9.80		ug/L		98	54 - 150
Chloroform	10.0	9.42		ug/L		94	80 - 120
Chloromethane	10.0	11.0		ug/L		110	28 - 151
Dibromochloromethane	10.0	10.8		ug/L		108	74 - 136
Dibromomethane	10.0	10.1		ug/L		101	80 - 122
Dichlorodifluoromethane	10.0	11.4		ug/L		114	27 - 154
Ethylbenzene	10.0	10.8		ug/L		108	80 - 126
Methylene Chloride	10.0	10.2		ug/L		102	80 - 120
Methyl tert-butyl ether	10.0	10.3		ug/L		103	69 - 128
Naphthalene	10.0	10.6		ug/L		106	70 - 130
o-Xylene	10.0	10.5		ug/L		105	80 - 124
m,p-Xylene	20.0	22.3		ug/L		112	80 - 123
Styrene	10.0	9.95		ug/L		99	80 - 121
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	79 - 120
trans-1,3-Dichloropropene	10.0	11.5		ug/L		115	80 - 126
t-Butanol	50.0	57.4		ug/L		115	68 - 133
Tetrachloroethene	10.0	11.5		ug/L		115	80 - 125
Toluene	10.0	10.4		ug/L		104	80 - 120
Trichloroethene	10.0	10.4		ug/L		104	77 - 124
Trichlorofluoromethane	10.0	7.17		ug/L		72	41 - 163
Vinyl acetate	10.0	10.5		ug/L		105	61 - 126
Vinyl chloride	10.0	9.53		ug/L		95	50 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 132*
4-Bromofluorobenzene (Surr)	*106*		*76 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-334371/5
Matrix: Water
Analysis Batch: 334371

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			10.0	10.6		ug/L		106	80 - 125	3	20
1,1,1-Trichloroethane			10.0	9.81		ug/L		98	75 - 121	3	20
1,1,2,2-Tetrachloroethane			10.0	10.8		ug/L		108	80 - 120	1	20
1,1,2-Trichloroethane			10.0	10.0		ug/L		100	80 - 121	2	20
1,1-Dichloroethane			10.0	10.4		ug/L		104	80 - 120	4	20
1,1-Dichloroethene			10.0	8.31		ug/L		83	80 - 126	5	21
1,1-Dichloropropene			10.0	9.63		ug/L		96	72 - 122	3	20
1,2,3-Trichloropropane			10.0	10.4		ug/L		104	75 - 127	0	20
1,2,4-Trichlorobenzene			10.0	11.6		ug/L		116	80 - 124	6	20
1,2-Dibromo-3-Chloropropane			10.0	9.86		ug/L		99	63 - 123	3	20
1,2-Dibromoethane (EDB)			10.0	9.99		ug/L		100	80 - 125	4	20
1,2-Dichlorobenzene			10.0	10.2		ug/L		102	80 - 120	3	20
1,2-Dichloroethane			10.0	10.3		ug/L		103	76 - 130	1	20
1,2-Dichloropropane			10.0	10.8		ug/L		108	74 - 124	4	20
1,3-Dichlorobenzene			10.0	10.2		ug/L		102	80 - 120	6	20
1,3-Dichloropropane			10.0	10.5		ug/L		105	80 - 121	3	20
1,4-Dichlorobenzene			10.0	9.99		ug/L		100	80 - 120	4	20
2,2-Dichloropropane			10.0	10.6		ug/L		106	79 - 131	7	20
2-Butanone (MEK)			10.0	10.4		ug/L		104	48 - 145	4	30
2-Hexanone			10.0	11.9		ug/L		119	50 - 149	12	29
4-Methyl-2-pentanone (MIBK)			10.0	10.8		ug/L		108	63 - 120	3	20
Acetone			10.0	7.65	J	ug/L		76	45 - 139	2	30
Benzene			10.0	10.1		ug/L		101	80 - 120	3	20
Bromochloromethane			10.0	9.51		ug/L		95	80 - 120	3	20
Bromodichloromethane			10.0	10.0		ug/L		100	73 - 131	3	20
Bromoform			10.0	11.0		ug/L		110	76 - 124	4	20
Bromomethane			10.0	6.17		ug/L		62	26 - 180	4	20
cis-1,2-Dichloroethene			10.0	9.87		ug/L		99	80 - 120	1	20
cis-1,3-Dichloropropene			10.0	10.2		ug/L		102	76 - 123	2	20
Carbon disulfide			10.0	9.86		ug/L		99	75 - 123	1	20
Carbon tetrachloride			10.0	9.84		ug/L		98	61 - 139	4	20
Chlorobenzene			10.0	10.1		ug/L		101	80 - 120	6	20
Chloroethane			10.0	9.30		ug/L		93	54 - 150	5	25
Chloroform			10.0	9.11		ug/L		91	80 - 120	3	20
Chloromethane			10.0	10.6		ug/L		106	28 - 151	4	20
Dibromochloromethane			10.0	10.6		ug/L		106	74 - 136	2	20
Dibromomethane			10.0	9.73		ug/L		97	80 - 122	4	20
Dichlorodifluoromethane			10.0	10.9		ug/L		109	27 - 154	4	21
Ethylbenzene			10.0	10.3		ug/L		103	80 - 126	4	20
Methylene Chloride			10.0	9.87		ug/L		99	80 - 120	4	20
Methyl tert-butyl ether			10.0	10.3		ug/L		103	69 - 128	0	20
Naphthalene			10.0	10.1		ug/L		101	70 - 130	5	20
o-Xylene			10.0	9.99		ug/L		100	80 - 124	5	20
m,p-Xylene			20.0	21.0		ug/L		105	80 - 123	6	20
Styrene			10.0	9.46		ug/L		95	80 - 121	5	20
trans-1,2-Dichloroethene			10.0	10.1		ug/L		101	79 - 120	4	20
trans-1,3-Dichloropropene			10.0	11.1		ug/L		111	80 - 126	3	20
t-Butanol			50.0	53.9		ug/L		108	68 - 133	6	21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-334371/5
Matrix: Water
Analysis Batch: 334371

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene			10.0	10.9		ug/L		109	80 - 125	5	20
Toluene			10.0	9.83		ug/L		98	80 - 120	5	20
Trichloroethene			10.0	9.71		ug/L		97	77 - 124	7	20
Trichlorofluoromethane			10.0	6.47		ug/L		65	41 - 163	10	21
Vinyl acetate			10.0	11.0		ug/L		110	61 - 126	5	24
Vinyl chloride			10.0	9.03		ug/L		90	50 - 160	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 132*
4-Bromofluorobenzene (Surr)	*106*		*76 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-334393/1-A
Matrix: Water
Analysis Batch: 335117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 334393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		06/05/23 08:14	06/07/23 09:07	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*53*		*21 - 120*	*06/05/23 08:14*	*06/07/23 09:07*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*82*		*58 - 135*	*06/05/23 08:14*	*06/07/23 09:07*	*1*

Lab Sample ID: LCS 570-334393/2-A
Matrix: Water
Analysis Batch: 335117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 334393

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane			20.0	15.9		ug/L		80	63 - 144

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*36*		*21 - 120*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*93*		*58 - 135*

Lab Sample ID: LCSD 570-334393/3-A
Matrix: Water
Analysis Batch: 335117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 334393

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			20.0	15.0		ug/L		75	63 - 144	6	20

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	37		21 - 120

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	89		58 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-334359/5
Matrix: Water
Analysis Batch: 334359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.36	mg/L			06/05/23 08:39	1

Lab Sample ID: LCS 570-334359/6
Matrix: Water
Analysis Batch: 334359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	51.4		mg/L		103	90 - 110

Lab Sample ID: LCSD 570-334359/7
Matrix: Water
Analysis Batch: 334359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	50.0	49.9		mg/L		100	90 - 110	3	15

Lab Sample ID: 570-140262-B-1 MS
Matrix: Water
Analysis Batch: 334359

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9.0		50.0	64.0		mg/L		110	80 - 120

Lab Sample ID: 570-140262-B-1 MSD
Matrix: Water
Analysis Batch: 334359

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.0		50.0	64.0		mg/L		110	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-334387/1-A
Matrix: Water
Analysis Batch: 335051

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 334387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		2.0	0.58	mg/L		06/05/23 07:34	06/06/23 19:31	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-334387/2-A
Matrix: Water
Analysis Batch: 335051

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 334387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	5.00	5.16		mg/L		103	80 - 120

Lab Sample ID: LCSD 570-334387/3-A
Matrix: Water
Analysis Batch: 335051

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 334387

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	5.00	5.16		mg/L		103	80 - 120	0	20

Lab Sample ID: 570-140333-1 MS
Matrix: Water
Analysis Batch: 335051

Client Sample ID: PZ-4-A
Prep Type: Total Recoverable
Prep Batch: 334387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	4.6		5.00	9.73		mg/L		103	83 - 131

Lab Sample ID: 570-140333-1 MSD
Matrix: Water
Analysis Batch: 335051

Client Sample ID: PZ-4-A
Prep Type: Total Recoverable
Prep Batch: 334387

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	4.6		5.00	9.97		mg/L		108	83 - 131	2	7

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 570-335987/5-A
Matrix: Water
Analysis Batch: 336013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.075	0.029	mg/L		06/09/23 12:20	06/09/23 13:50	1

Lab Sample ID: LCS 570-335987/6-A
Matrix: Water
Analysis Batch: 336013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	0.500	0.476		mg/L		95	90 - 110

Lab Sample ID: LCSD 570-335987/7-A
Matrix: Water
Analysis Batch: 336013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335987

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	0.500	0.481		mg/L		96	90 - 110	1	20

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 570-140091-D-1-A MS
Matrix: Water
Analysis Batch: 336013

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 335987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	0.061	J	0.500	0.579		mg/L		103	90 - 110

Lab Sample ID: 570-140091-D-1-B MSD
Matrix: Water
Analysis Batch: 336013

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 335987

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	0.061	J	0.500	0.550		mg/L		98	90 - 110	5	25

Method: 410.4 - COD

Lab Sample ID: MB 570-335220/3-A
Matrix: Water
Analysis Batch: 335242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335220

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		100	14	mg/L		06/07/23 11:56	06/07/23 13:30	1

Lab Sample ID: LCS 570-335220/4-A
Matrix: Water
Analysis Batch: 335242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335220

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	205	210		mg/L		103	90 - 110

Lab Sample ID: LCSD 570-335220/5-A
Matrix: Water
Analysis Batch: 335242

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335220

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	205	201		mg/L		98	90 - 110	5	20

Lab Sample ID: 570-140333-1 MS
Matrix: Water
Analysis Batch: 335242

Client Sample ID: PZ-4-A
Prep Type: Total/NA
Prep Batch: 335220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	ND		205	210		mg/L		103	90 - 110

Lab Sample ID: 570-140333-1 MSD
Matrix: Water
Analysis Batch: 335242

Client Sample ID: PZ-4-A
Prep Type: Total/NA
Prep Batch: 335220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		205	212		mg/L		104	90 - 110	1	20

Method: 410.4 - COD (Continued)

Lab Sample ID: 570-140700-C-1-D DU
Matrix: Water
Analysis Batch: 335242

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 335220

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	71	J		73.4	J	mg/L				3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 570-335376/1
Matrix: Water
Analysis Batch: 335376

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	8.7	mg/L			06/07/23 18:49	1

Lab Sample ID: LCS 570-335376/2
Matrix: Water
Analysis Batch: 335376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	984		mg/L		98	84 - 108		

Lab Sample ID: LCSD 570-335376/3
Matrix: Water
Analysis Batch: 335376

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1010		mg/L		101	84 - 108	2	10

Lab Sample ID: 570-140333-10 DU
Matrix: Water
Analysis Batch: 335376

Client Sample ID: MW-1-B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	3500			3530		mg/L				0.4	10

GC/MS VOA

Analysis Batch: 334306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-11	FIELD BLANK	Total/NA	Water	8260B	
570-140333-12	TRIP BLANK	Total/NA	Water	8260B	
MB 570-334306/7	Method Blank	Total/NA	Water	8260B	
LCS 570-334306/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-334306/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 334371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-13	MW-13R-A	Total/NA	Water	8260B	
570-140333-14	MW-13R-B	Total/NA	Water	8260B	
570-140333-15	DW-5-A	Total/NA	Water	8260B	
570-140333-16	DW-5-B	Total/NA	Water	8260B	
MB 570-334371/7	Method Blank	Total/NA	Water	8260B	
LCS 570-334371/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-334371/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 334393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-1	PZ-4-A	Total/NA	Water	3510C	
570-140333-2	PZ-4-B	Total/NA	Water	3510C	
MB 570-334393/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-334393/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-334393/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 335117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-1	PZ-4-A	Total/NA	Water	8270C SIM ID	334393
570-140333-2	PZ-4-B	Total/NA	Water	8270C SIM ID	334393
MB 570-334393/1-A	Method Blank	Total/NA	Water	8270C SIM ID	334393
LCS 570-334393/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	334393
LCSD 570-334393/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	334393

HPLC/IC

Analysis Batch: 334359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-9	MW-1-A	Total/NA	Water	300.0	
570-140333-10	MW-1-B	Total/NA	Water	300.0	
MB 570-334359/5	Method Blank	Total/NA	Water	300.0	
LCS 570-334359/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-334359/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-140262-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
570-140262-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 334387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-1	PZ-4-A	Total Recoverable	Water	3005A	
570-140333-2	PZ-4-B	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 334387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-334387/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 570-334387/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 570-334387/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
570-140333-1 MS	PZ-4-A	Total Recoverable	Water	3005A	
570-140333-1 MSD	PZ-4-A	Total Recoverable	Water	3005A	

Analysis Batch: 335051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-1	PZ-4-A	Total Recoverable	Water	6010B	334387
570-140333-2	PZ-4-B	Total Recoverable	Water	6010B	334387
MB 570-334387/1-A	Method Blank	Total Recoverable	Water	6010B	334387
LCS 570-334387/2-A	Lab Control Sample	Total Recoverable	Water	6010B	334387
LCSD 570-334387/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	334387
570-140333-1 MS	PZ-4-A	Total Recoverable	Water	6010B	334387
570-140333-1 MSD	PZ-4-A	Total Recoverable	Water	6010B	334387

General Chemistry

Prep Batch: 335220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-1	PZ-4-A	Total/NA	Water	410.4	
570-140333-2	PZ-4-B	Total/NA	Water	410.4	
570-140333-3	DW-3-A	Total/NA	Water	410.4	
570-140333-4	DW-3-B	Total/NA	Water	410.4	
570-140333-5	PZ-2-A	Total/NA	Water	410.4	
570-140333-6	PZ-2-B	Total/NA	Water	410.4	
570-140333-7	MW-14-A	Total/NA	Water	410.4	
570-140333-8	MW-14-B	Total/NA	Water	410.4	
MB 570-335220/3-A	Method Blank	Total/NA	Water	410.4	
LCS 570-335220/4-A	Lab Control Sample	Total/NA	Water	410.4	
LCSD 570-335220/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	
570-140333-1 MS	PZ-4-A	Total/NA	Water	410.4	
570-140333-1 MSD	PZ-4-A	Total/NA	Water	410.4	
570-140700-C-1-D DU	Duplicate	Total/NA	Water	410.4	

Analysis Batch: 335242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-1	PZ-4-A	Total/NA	Water	410.4	335220
570-140333-2	PZ-4-B	Total/NA	Water	410.4	335220
570-140333-3	DW-3-A	Total/NA	Water	410.4	335220
570-140333-4	DW-3-B	Total/NA	Water	410.4	335220
570-140333-5	PZ-2-A	Total/NA	Water	410.4	335220
570-140333-6	PZ-2-B	Total/NA	Water	410.4	335220
570-140333-7	MW-14-A	Total/NA	Water	410.4	335220
570-140333-8	MW-14-B	Total/NA	Water	410.4	335220
MB 570-335220/3-A	Method Blank	Total/NA	Water	410.4	335220
LCS 570-335220/4-A	Lab Control Sample	Total/NA	Water	410.4	335220
LCSD 570-335220/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	335220
570-140333-1 MS	PZ-4-A	Total/NA	Water	410.4	335220
570-140333-1 MSD	PZ-4-A	Total/NA	Water	410.4	335220
570-140700-C-1-D DU	Duplicate	Total/NA	Water	410.4	335220

QC Association Summary

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

General Chemistry

Analysis Batch: 335376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-1	PZ-4-A	Total/NA	Water	SM 2540C	
570-140333-2	PZ-4-B	Total/NA	Water	SM 2540C	
570-140333-7	MW-14-A	Total/NA	Water	SM 2540C	
570-140333-8	MW-14-B	Total/NA	Water	SM 2540C	
570-140333-9	MW-1-A	Total/NA	Water	SM 2540C	
570-140333-10	MW-1-B	Total/NA	Water	SM 2540C	
MB 570-335376/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-335376/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-335376/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-140333-10 DU	MW-1-B	Total/NA	Water	SM 2540C	

Prep Batch: 335987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-1	PZ-4-A	Total/NA	Water	Distill/Ammonia	
570-140333-2	PZ-4-B	Total/NA	Water	Distill/Ammonia	
MB 570-335987/5-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 570-335987/6-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
LCSD 570-335987/7-A	Lab Control Sample Dup	Total/NA	Water	Distill/Ammonia	
570-140091-D-1-A MS	Matrix Spike	Total/NA	Water	Distill/Ammonia	
570-140091-D-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 336013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-140333-1	PZ-4-A	Total/NA	Water	350.1	335987
570-140333-2	PZ-4-B	Total/NA	Water	350.1	335987
MB 570-335987/5-A	Method Blank	Total/NA	Water	350.1	335987
LCS 570-335987/6-A	Lab Control Sample	Total/NA	Water	350.1	335987
LCSD 570-335987/7-A	Lab Control Sample Dup	Total/NA	Water	350.1	335987
570-140091-D-1-A MS	Matrix Spike	Total/NA	Water	350.1	335987
570-140091-D-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	335987

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: PZ-4-A
Lab Sample ID: 570-140333-1
Date Collected: 06/01/23 09:09
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			125.9 mL	10 mL	334393	06/05/23 08:14	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	335117	06/07/23 10:50	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total Recoverable	Prep	3005A			50 mL	50 mL	334387	06/05/23 07:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			335051	06/06/23 19:40	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	335987	06/09/23 12:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	336013	06/09/23 14:04	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	335220	06/07/23 11:56	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	335242	06/07/23 13:30	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	335376	06/07/23 18:49	ZL7L	EET CAL 4
	Instrument ID: BAL100									

Client Sample ID: PZ-4-B
Lab Sample ID: 570-140333-2
Date Collected: 06/01/23 09:14
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			130.2 mL	10 mL	334393	06/05/23 08:14	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	335117	06/07/23 11:05	UFLE	EET CAL 4
	Instrument ID: GCMSDDD									
Total Recoverable	Prep	3005A			50 mL	50 mL	334387	06/05/23 07:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			335051	06/06/23 19:50	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	335987	06/09/23 12:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	336013	06/09/23 14:05	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	335220	06/07/23 11:56	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	335242	06/07/23 13:30	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	335376	06/07/23 18:49	ZL7L	EET CAL 4
	Instrument ID: BAL100									

Client Sample ID: DW-3-A
Lab Sample ID: 570-140333-3
Date Collected: 06/01/23 10:37
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	410.4			2 mL	2 mL	335220	06/07/23 11:56	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	335242	06/07/23 13:30	ZL4M	EET CAL 4
	Instrument ID: UV10									

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: DW-3-B
Lab Sample ID: 570-140333-4
Date Collected: 06/01/23 10:42
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	410.4			2 mL	2 mL	335220	06/07/23 11:56	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	335242	06/07/23 13:30	ZL4M	EET CAL 4
	Instrument ID: UV10									

Client Sample ID: PZ-2-A
Lab Sample ID: 570-140333-5
Date Collected: 06/01/23 08:48
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	410.4			2 mL	2 mL	335220	06/07/23 11:56	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	335242	06/07/23 13:30	ZL4M	EET CAL 4
	Instrument ID: UV10									

Client Sample ID: PZ-2-B
Lab Sample ID: 570-140333-6
Date Collected: 06/01/23 08:53
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	410.4			2 mL	2 mL	335220	06/07/23 11:56	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	335242	06/07/23 13:30	ZL4M	EET CAL 4
	Instrument ID: UV10									

Client Sample ID: MW-14-A
Lab Sample ID: 570-140333-7
Date Collected: 06/01/23 09:52
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	410.4			2 mL	2 mL	335220	06/07/23 11:56	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	335242	06/07/23 13:30	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	335376	06/07/23 18:49	ZL7L	EET CAL 4
	Instrument ID: BAL100									

Client Sample ID: MW-14-B
Lab Sample ID: 570-140333-8
Date Collected: 06/01/23 09:57
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	410.4			2 mL	2 mL	335220	06/07/23 11:56	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	335242	06/07/23 13:30	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	335376	06/07/23 18:49	ZL7L	EET CAL 4
	Instrument ID: BAL100									

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: MW-1-A
Lab Sample ID: 570-140333-9
Date Collected: 06/01/23 12:00
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20	4 mL	4 mL	334359	06/05/23 15:25	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	SM 2540C		1	20 mL	1000 mL	335376	06/07/23 18:49	ZL7L	EET CAL 4
	Instrument ID: BAL100									

Client Sample ID: MW-1-B
Lab Sample ID: 570-140333-10
Date Collected: 06/01/23 12:05
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20	4 mL	4 mL	334359	06/05/23 15:42	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	SM 2540C		1	20 mL	1000 mL	335376	06/07/23 18:49	ZL7L	EET CAL 4
	Instrument ID: BAL100									

Client Sample ID: FIELD BLANK
Lab Sample ID: 570-140333-11
Date Collected: 06/01/23 00:00
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	334306	06/03/23 16:27	N1A	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: TRIP BLANK
Lab Sample ID: 570-140333-12
Date Collected: 06/01/23 00:00
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	334306	06/03/23 16:52	N1A	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: MW-13R-A
Lab Sample ID: 570-140333-13
Date Collected: 06/01/23 11:54
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	334371	06/05/23 16:06	N5PD	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: MW-13R-B
Lab Sample ID: 570-140333-14
Date Collected: 06/01/23 12:00
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	334371	06/05/23 16:31	N5PD	EET CAL 4
	Instrument ID: GCMSUU									

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Client Sample ID: DW-5-A
Lab Sample ID: 570-140333-15
Date Collected: 06/01/23 13:12
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	334371	06/05/23 16:56	N5PD	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: DW-5-B
Lab Sample ID: 570-140333-16
Date Collected: 06/01/23 13:17
Matrix: Water
Date Received: 06/01/23 17:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	334371	06/05/23 17:21	N5PD	EET CAL 4
	Instrument ID: GCMSUU									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	Los Angeles County Sanitation Districts	10109	07-31-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Kansas	NELAP	E-10420	07-31-23
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	05-24-23 *
Washington	State	C916-18	10-11-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
350.1	Nitrogen, Ammonia	EPA	EET CAL 4
410.4	COD	EPA	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
410.4	COD	EPA	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
Distill/Ammonia	Distillation, Ammonia	None	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Geo-Logic Associates
Job ID: 570-140333-1
Project/Site: Republic Sunshine Canyon 2023 GW-retest

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-140333-1	PZ-4-A	Water	06/01/23 09:09	06/01/23 17:41
570-140333-2	PZ-4-B	Water	06/01/23 09:14	06/01/23 17:41
570-140333-3	DW-3-A	Water	06/01/23 10:37	06/01/23 17:41
570-140333-4	DW-3-B	Water	06/01/23 10:42	06/01/23 17:41
570-140333-5	PZ-2-A	Water	06/01/23 08:48	06/01/23 17:41
570-140333-6	PZ-2-B	Water	06/01/23 08:53	06/01/23 17:41
570-140333-7	MW-14-A	Water	06/01/23 09:52	06/01/23 17:41
570-140333-8	MW-14-B	Water	06/01/23 09:57	06/01/23 17:41
570-140333-9	MW-1-A	Water	06/01/23 12:00	06/01/23 17:41
570-140333-10	MW-1-B	Water	06/01/23 12:05	06/01/23 17:41
570-140333-11	FIELD BLANK	Water	06/01/23 00:00	06/01/23 17:41
570-140333-12	TRIP BLANK	Water	06/01/23 00:00	06/01/23 17:41
570-140333-13	MW-13R-A	Water	06/01/23 11:54	06/01/23 17:41
570-140333-14	MW-13R-B	Water	06/01/23 12:00	06/01/23 17:41
570-140333-15	DW-5-A	Water	06/01/23 13:12	06/01/23 17:41
570-140333-16	DW-5-B	Water	06/01/23 13:17	06/01/23 17:41

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

570-140333 Chain of Custody

eurofins | Cal

Loc: 570
140333

Client Information	Sampler: NR, CV	Lab PM: Rossina	COC No:
Client Contact: Kyle Welchans	Phone: (858) 451-1136	E-Mail: KWelchans@Geo-Logic.com	Page: 1 of 2
Company: Geo-Logic Associates			Job #:
Address: 11415 W Bernardo Ct Suite 200	Due Date Requested:		
City: San Diego	TAT Requested (days):		
State, Zip: CA 92127			
Phone: (858) 451-1136	PO #:		
Email:	WO #:		
Project Name: Republic Services Sunshine Canyon Landfill	Project #: S022.1032		
Site: Sunshine Canyon Landfill	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 350.2 - Ammonia as N	EPA 410.4 - COD	EPA 160.1 - Total Dissolved Solids	EPA 6010B - Total Potassium	EPA 8270 - 1,4 Dioxane	EPA 300.0 - Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
1 P2-4-A	6/1/23	0909	G	GW			X	X	X	X	X			
2 P2-4-B	6/1/23	0914	G	GW			X	X	X	X	X			
3 DW-3-A	6/1/23	1037	G	GW				X						
4 DW-3-B	6/1/23	1042	G	GW				X						
5 P2-2-A	6/1/23	0848	G	GW				X						
6 P2-2-B	6/1/23	0853	G	GW				X						
7 MW-14-A	6/1/23	0952	G	GW				X	X					
8 MW-14-B	6/1/23	0957	G	GW				X	X					
9 MW-1-A	6/1/23	1200	G	GW					X			X		
10 ~~MW-1-B~~ MW-1-B	6/1/23	1205	G	GW					X			X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		6-1-23 / 1333	GLA		06/01/23 1333	EC
2		06/01/23 1741	EC		6/1/23 1741	EC
3						

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.8/3.0 sc6

Ver: 01/16/2019

6/13/2023

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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Client Information	Sampler: NR, CV	Lab PM: Rossina	Carrier Tracking No(s):	COC No:
Client Contact: Kyle Welchans	Phone: (858) 451-1136	E-Mail: KWelchans@Geo-Logic.com		Page: 2 of 2
Company: Geo-Logic Associates				Job #:
Address: 11415 W Bernardo G Suite 200	Due Date Requested:			
City: San Diego	TAT Requested (days):			
State, Zip: CA 92127				
Phone: (858) 451-1136	PO #:			
Email: KWelchans@Geo-Logic.com	WO #:			
Project Name: Republic Services-Sunshine Canyon Landfill	Project #: S22.1032			
Site: Sunshine Canyon Landfill	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 8260B VOCs	EPA 8260B - Carbon Disulfide	EPA 8260B - Isobutyl Alcohol	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
11 Field Blank	6/1/23	—	G	Lab HW			x				
12 Trip Blank	6/1/23	—	G	Lab HW			x				
13 MW-13R-A	6/1/23	1154	G	GW				x			
14 MW-13R-B	6/1/23	1200	G	GW				x			
15 DW-5-A	6/1/23	1312	G	GW					x		
16 DW-5-B	6/1/23	1317	G	GW					x		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	6-1-23/1333	GLA		06/01/23 1333	EC
Relinquished by:	06/01/23 1741	EC		6/1/23 1741	EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 570-140333-1

Login Number: 140333
List Number: 1
Creator: Skinner, Alma D

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Geo-Logic ASSOCIATES

GROUNDWATER MONITORING PROGRAM
WATER LEVEL SURVEY RECORD SHEET

SITE NAME: SUNSHINE CANYON
DATE: 6/19/23 - 6/20/23
PROJECT NUMBER S022.1227
WATER LEVEL MAKE/MODEL: SOLINST, HERON
FIELD PERSONNEL: M. AHALA, M. CAMPBELL, N. REASON, C. VALENZUELA

WELL ID	CONSTRUCTION TOTAL DEPTH (TD)	ACTUAL TOTAL DEPTH (TD)	DEPTH TO WATER (DTW)	COMMENTS
CM-9R3			14.01	
CM-10R			44.92	
CM-11R			15.09	
MW-1			14.22	
MW-5			16.48	
MW-6			16.15	
MW-13R			16.29	
MW-14			13.89	
DW-2			17.74	
DW-3			156.75	
PZ-2			119.62	
PZ-4			109.76	
DW-5			12.95	
CM-5R			227.84	
PZ-1			94.98	
PZ-3			225.08	

REMARKS:

SIGNATURE: NICHOLAS REASON

Geo-Logic ASSOCIATES

Geologists • Hydrogeologists • Engineers

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CANYON	**Project No.:**	S022.1227
Well I.D.:	CM-9R3	**Sampling Date:**	06/19/2023
Collected By:	NR, MA	**Purge start Time:**	0959
Casing Diameter (inches):	4	**Purge Stop time:**	1020
Starting Water Level:	14.01	**Sampling (Well Recovery) Time:**	1035
Total Depth (feet):	33.15	**Ending Water Level (feet):**	15.48
Water column (feet):	19.14	**Total Purged (gallons):**	3 1/2
Screen Length (feet):	–	**Duplicate Sample:**	(YES) NO
Sample Method:	(Micro Purge) Low Flow	* DUPLICATE COLLECTED HERE *	
Horiba Model S/N:	U-52/DLLCYV86		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1005	3/4	14.92	3.30	4.01	39.3	1.16	17.10	306
1008	1 1/2	14.78	3.29	4.01	17.1	0.65	17.06	299
1011	2	14.98	3.29	4.01	12.6	0.56	17.02	295
1013	2 1/2	15.13	3.29	4.00	9.5	0.51	17.00	291
1015	2 3/4	15.23	3.29	4.00	10.4	0.48	17.00	288
1017	3	15.32	3.30	4.0	6.9	0.49	17.00	287
1020	3 1/2	15.48	3.30	4.0	9.8	0.49	16.99	286

Purge Sampling Rates: PSI@30 Refill 30 Discharge 10

CARRIED EQUIPMENT TO WELL. ACCESS ROAD HEAVILY ERODED FROM WINTER/SPRING RAINS.

Well condition: OK - Water has orange tint and no odor.

Additional Info/Comments: OVERCAST, COOL TEMP, BREEZY

Name: NICHOLAS REASON **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: CM-923 Date: 06/19/2023

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 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: _____

Measurment 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] Signed | Field Tech Title | 06/19/2023 Date

Geo-Logic ASSOCIATES

Geologists • Hydrogeologists • Engineers

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	S022.1227
Well I.D.:	CM-10R	**Sampling Date:**	06/14/2023
Collected By:	NR, MA	**Purge start Time:**	1122
Casing Diameter (inches):	4	**Purge Stop time:**	1137
Starting Water Level:	44.92	**Sampling (Well Recovery) Time:**	1145
Total Depth (feet):	110.90	**Ending Water Level (feet):**	45.24
Water column (feet):	65.98	**Total Purged (gallons):**	2
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 (Delay Vol)		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1127	1/2	45.09	6.57	3.05	0	0.96	21.40	80
1130	1	45.12	6.64	3.05	0	0.80	21.47	54
1134	1 1/2	45.18	6.67	3.04	0	0.76	21.60	33
1135	1 3/4	45.19	6.69	3.04	0	0.73	21.57	26
1137	2	45.24	6.69	3.03	0	0.69	21.57	20

Purge Sampling Rates: PSI @ 50, Discharge @ ~~40~~ 16, Refill @ 40

Well condition: OK, siting water inside monument

Additional Info/Comments: Light winds, overcast

Name: Marcos Ayala **Signature:** Mayh

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: CM-10R Date: 06/19/2023

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:

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: _____

Measurment 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] Signed — Field Tech Title — 6/19/23 Date

Geo-Logic ASSOCIATES

Geologists • Hydrogeologists • Engineers

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name: SUNSHINE CANYON

Well I.D.: CM-11R

Collected By: NR, MA

Casing Diameter (inches): 4

Starting Water Level: 15.09

Total Depth (feet): 30.70

Water column (feet): 15.61

Screen Length (feet): —

Sample Method: (Micro Purge) Low Flow

Horiba Model S/N: U-52

Project No.: 3022.1227

Sampling Date: 06/19/2023

Purge start Time: 0811

Purge Stop time: 0858

Sampling (Well Recovery) Time: 0913

Ending Water Level (feet): 16.50

Total Purged (gallons): 2¼

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
0824	½	15.43	3.21	3.97	0.0	0.55	16.81	171
0834	1	15.75	3.20	3.79	0.0	0.29	16.77	165
0840	1¼	15.90	3.20	3.37	0.0	0.22	16.70	183
0844	1½	16.05	3.22	3.23	0.0	0.21	16.68	192
0849	1¾	16.21	3.25	3.17	0.0	0.18	16.67	200
0853	2	16.33	3.26	3.15	0.0	0.17	16.68	206
0858	2¼	16.50	3.27	3.14	0.0	0.21	16.69	210

Purge Sampling Rates: PSI 30 REFILL (25.0) DISCHARGE (7)

Required CARRYING EQUIPMENT AND BOTTLES UP CONCRETE CHANNEL TO ACCESS WELL

Well condition: OK - HEAVY VEGETATION AND DEPRESSIONS AROUND WELL, WATER CLEAR WITH NO ODOR

Additional Info/Comments: OVERCAST, COOL TEMP

Name: NICHOLAS REASON. Signature:

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: SUNSHINE CANYON Well ID: CM-11R Date: 06/19/2023

Access:

Accessibility: Good: _____ Fair: _____ Poor: X

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

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

Remarks: REQUIRED CARRYING SAMPLING EQUIPMENT UP CHANNEL TO ACCESS WELL

Concrete Pad:

Integrity: Good: _____ Inadequate: _____

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

Remarks: HALF OF CONCRETE PAD IS BURIED

Protective Outer Casing: Material: METAL

Condition of Protective Casing: Good: X Damaged: _____

Condition of Locking Cap: Good: X Damaged: _____

Condition of Lock: Good: X Damaged: _____

Condition of Weepholes: Good: X Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: X Damaged: _____

Condition of Riser Cap: Good: X Damaged: _____

Measurment reference point: Yes: X No: _____

Remarks:

Dedicated Pump: Type: BLADDER

Condition: Good: X Damaged: _____ Missing: _____

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

Remarks:

Field Certification: _____ Field Tech 6/19/2023

Signed Title Date

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	Project No.:	S022.1032
Well I.D.:	MW-1	Sampling Date:	06/20/23
Collected By:	MA	Purge start Time:	0856
Casing Diameter (inches):	4	Purge Stop time:	0910
Starting Water Level:	14.22	Sampling (Well Recovery) Time:	0930
Total Depth (feet):	28.465	Ending Water Level (feet):	14.32
Water column (feet):	14.63	Total Purged (gallons):	2 3/4
Screen Length (feet):	—	Duplicate Sample:	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 DLLCYV06		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0859	1/2	14.31	6.67	5.34	111	1.02	19.97	167
0901	1	14.36	6.67	5.24	121	0.69	20.03	119
0903	1 1/2	14.37	6.68	4.44	52	0.68	19.89	29
0906	2	14.35	6.69	4.17	36	0.48	19.85	-22
0907	2 1/4	14.34	6.69	4.15	33	0.49	19.83	-30
0908	2 1/2	14.33	6.69	4.13	31	0.40	19.85	-35
0910	2 3/4	14.32	6.69	4.12	29	0.42	19.83	-38

Purge Sampling Rates: PST@20, Refill @ 30, Discharge @ 9

Well condition: OK, water looks brown w/ no odor

Additional Info/Comments: Sunny, Cool

Name: Marcos Ayala **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-1 Date: 06/20/23

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 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: _____

Measurment 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 06/20/23

Signed Title Date

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	Project No.:	8122.1032
Well I.D.:	MW-5	Sampling Date:	06/20/23
Collected By:	MA	Purge start Time:	0752
Casing Diameter (inches):	2	Purge Stop time:	0808
Starting Water Level:	16.48	Sampling (Well Recovery) Time:	0815
Total Depth (feet):	25.65	Ending Water Level (feet):	17.09
Water column (feet):	9.17	Total Purged (gallons):	3 1/4
Screen Length (feet):		Duplicate Sample:	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 DLLCYV06		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0755	1/2	17.01	6.56	3.74	19.3	4.52	18.18	268
0758	1	17.27	6.66	3.29	9.2	0.98	17.88	205
0800	1 1/2	17.23	6.67	3.22	6.2	0.51	17.77	109
0802	2	17.21	6.68	3.25	5.7	0.32	17.73	63
0804	2 1/2	17.15	6.69	3.28	5.8	0.16	17.71	27
0805	2 3/4	17.14	6.70	3.27	5.9	0.10	17.71	12
0807	3	17.16	6.70	3.27	5.8	0.09	17.71	10
0808	3 1/4	17.09	6.70	3.26	5.8	0.06	17.70	8

Purge Sampling Rates: RSI @ 25, Refill @ 30, Discharge @ 7

Well condition: OK, water looks cloudy w/ no ~~stink~~ mw odor

Additional Info/Comments: Cool, Sunny, light wind

Name: Marcos Ayala **Signature:** [signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-5 Date: 06/20/23

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: ~~✓~~ N/A Inadequate: ✓

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

Remarks: Concrete Pad is 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: _____

Measurment 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 06/20/23

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1227
Well I.D.:	MW-6	**Sampling Date:**	6-19-23
Collected By:	CV	**Purge start Time:**	1113
Casing Diameter (inches):	2	**Purge Stop time:**	1214
Starting Water Level:	16.15	**Sampling (Well Recovery) Time:**	1234
Total Depth (feet):	20.52	**Ending Water Level (feet):**	17.29
Water column (feet):	4.37	**Total Purged (gallons):**	2 1/2
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 ~~1866 P8085~~		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1126	1/2	16.83	6.86	3.78	0.3	9.93	20.67	-307
1138	1	17.10	6.77	3.85	0.0	7.74	20.90	-320
1144	1 1/4	17.16	6.74	3.89	0.0	6.61	20.90	-323
1150	1 1/2	17.21	6.71	3.91	0.0	6.15	20.88	-324
1156	1 3/4	17.23	6.68	3.93	0.0	5.91	20.94	-326
1202	2	17.26	6.67	3.94	0.0	5.70	20.98	-325
1208	2 1/4	17.28	6.66	3.95	0.0	5.64	21.01	-326
1214	2 1/2	17.29	6.65	3.96	0.0	5.56	21.04	-326

Purge Sampling Rates: 25 PSI Refill 30 D-S 6

Well condition: OK, Heavy traffic ~~North~~ (CU) East of well. Samples appear to have light black/brown tint with odor! Sulfur smell.

Additional Info/Comments: Over cast, cool, Breezy

Name: Christian Valenzuela **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-6 Date: 6-19-23

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 sampling Equipment through Heavy Brush

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: _____

Measurment 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 6-19-23

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1227
Well I.D.:	MW-13R	**Sampling Date:**	06/20/2023
Collected By:	NR	**Purge start Time:**	0830
Casing Diameter (inches):	4	**Purge Stop time:**	0917
Starting Water Level:	16.29	**Sampling (Well Recovery) Time:**	0932
Total Depth (feet):	28.47	**Ending Water Level (feet):**	16.80
Water column (feet):	12.18	**Total Purged (gallons):**	2
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52/W5H0V5A6		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0846	1/2	16.55	7.29	2.26	62.2	7.79	21.34	-407
0850	3/4	16.58	7.30	2.26	59.7	6.94	21.38	-409
0855	1	16.58	7.30	2.26	61.2	6.04	21.46	-412
0900	1 1/4	16.60	7.29	2.26	61.8	5.65	21.51	-413
0906	1 1/2	16.67	7.30	2.26	59.8	5.43	21.56	-417
0911	1 3/4	16.71	7.29	2.26	59.9	5.36	21.59	-417
0917	2	16.80	7.30	2.26	60.1	5.33	21.63	-418

Purge Sampling Rates: 30 PSI REFILL (30) DISCHARGE (6.3)

PURGE WATER HAS GREENISH YELLOW TINT WITH BLACK PARTICULATES AND VERY STRONG SULFUR ODOR

Well condition: OK - REQUIRES CARRYING EQUIPMENT TO WELL, CORROSION ON INSIDE OF MONUMENT

Additional Info/Comments: SUNNY, MILD TEMP, HEAVY TRAFFIC NEXT TO WELL

Name: NICHOLAS REARDON **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-13R Date: 06/20/2023

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: Required carrying equipment 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: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: ✓ Damaged: _____

Remarks: Corrosion on inside of well monument

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment 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 6/20/23

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1227
Well I.D.:	MW-14	**Sampling Date:**	6-19-23
Collected By:	CV	**Purge start Time:**	0955
Casing Diameter (inches):	4	**Purge Stop time:**	1008
Starting Water Level:	13.89	**Sampling (Well Recovery) Time:**	1025
Total Depth (feet):	27.35	**Ending Water Level (feet):**	14.08
Water column (feet):	13.46	**Total Purged (gallons):**	2 3/4
Screen Length (feet):	-	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 w00P8625		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0959	1	13.99	6.59	5.99	0.0	1.87	20.69	138
1002	1 1/2	13.99	6.56	5.99	0.0	1.53	20.69	133
1004	2	14.04	6.55	5.98	0.0	1.37	20.66	129
1005	2 1/4	14.07	6.54	5.98	0.0	1.36	20.64	128
1007	2 1/2	14.07	6.54	5.98	0.0	1.32	20.65	128
1008	2 3/4	14.08	6.52	5.98	0.0	1.28	20.63	127

Purge Sampling Rates: 25 PSI Refill 25 dis 10

Well condition: OK, required carrying Equipment down slope to well. Heavy traffic East of well

Additional Info/Comments: Overcast, cool, Breezy, Boots on sounder

Name: Christian Valenzuela **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Shasta Canyon Well ID: MW-14 Date: 6-19-23

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: Required carrying Equipment DOWN Slope.

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

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

Remarks: Some soil on Pad Aprox 1inch.

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: _____

Measurment 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 6-19-23

Signed Title Date

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	S022.1227
Well I.D.:	DW-2	**Sampling Date:**	6/19/2023
Collected By:	NR, MA	**Purge start Time:**	1226
Casing Diameter (inches):	4	**Purge Stop time:**	1242
Starting Water Level:	17.74	**Sampling (Well Recovery) Time:**	1255
Total Depth (feet):	70.90	**Ending Water Level (feet):**	21.10
Water column (feet):	53.16	**Total Purged (gallons):**	2 3/4
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 / Olive		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1229	1/2	18.98	7.56	2.60	11.3	5.70	19.36	16
1232	1	19.29	7.55	2.60	7.2	2.69	19.35	-22
1235	1 1/2	19.65	7.54	2.60	2.0	1.40	19.38	-45
1237	2	20.32	7.54	2.59	0	1.06	19.41	-61
1239	2 1/4	20.67	7.54	2.59	0	0.95	19.41	-67
1240	2 1/2	20.83	7.55	2.58	0	.80	19.39	-70
1242	2 3/4	21.10	7.54	2.58	0	.73	19.41	-73

Purge Sampling Rates: PSI @ 60 Refill @ 30, Discharge @ 11

Well condition: OK, heavy vegetation,

Additional Info/Comments: Sunny, light wind

Name: Marcos Ayala **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: DW-2 Date: 6/19/23

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: N/A Inadequate: _____

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: _____

Measurment 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 6/19/23

Signed Title Date

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	Project No.:	S022.1032
Well I.D.:	DW-3	Sampling Date:	6/20/23
Collected By:	MA	Purge start Time:	1133
Casing Diameter (inches):	4"	Purge Stop time:	1150
Starting Water Level:	156.75	Sampling (Well Recovery) Time:	1205
Total Depth (feet):		Ending Water Level (feet):	160.49
Water column (feet):		Total Purged (gallons):	2 1/2
Screen Length (feet):		Duplicate Sample:	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 DLCYV06		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1134	1/2	158.11	7.25	1.97	0	2.10	21.57	281
1141	1	158.72	7.27	1.98	0	0.90	21.09	237
1143	1 1/4	159.09	7.28	1.98	0	0.76	20.78	202
1144	1 1/2	159.44	7.27	1.98	0	0.65	21.03	170
1146	1 3/4	159.83	7.29	1.98	0	0.61	20.78	140
1148	2	160.05	7.29	1.98	0	0.59	20.74	115
1149	2 1/4	160.23	7.29	1.98	0	0.57	20.71	110
1150	2 1/2	160.49	7.29	1.98	0	0.56	20.70	107

Purge Sampling Rates: PSI @ 140, Refill @ 40, Discharge @ 13

Well condition: OK; water look clear, w/ no odor.

Additional Info/Comments: Sunny

Name: Marcos Ayala **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: DW-3 Date: 06/20/23

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:

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: _____

Measurment 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: _____

Signed Title Date

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5022.1227
Well I.D.:	PZ-2	**Sampling Date:**	6-19-23
Collected By:	CV	**Purge start Time:**	0804
Casing Diameter (inches):	2	**Purge Stop time:**	0832
Starting Water Level:	119.62	**Sampling (Well Recovery) Time:**	0852
Total Depth (feet):	157.53	**Ending Water Level (feet):**	126.41
Water column (feet):	37.91	**Total Purged (gallons):**	2 1/4
Screen Length (feet):	–	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 W6GP8GR5		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0811	1/2	121.69	8.13	5.68	0.0	1.95	24.42	-117
0818	1	122.97	8.45	5.71	0.0	1.43	24.33	-119
0822	1 1/2	124.42	8.48	5.70	0.6	1.29	24.37	-118
0826	1 3/4	125.27	8.50	5.70	0.6	1.23	24.37	-120
0829	2	125.65	8.50	5.70	0.0	1.18	24.35	-122
0832	2 1/4	126.41	8.49	5.70	0.0	1.13	24.34	-123

Purge Sampling Rates: 80 PSI Refill(30) Dis 20

Well condition: OK

Additional Info/Comments: Overcast, cool, Breezy

Name: Christian Valenzuela **Signature:** [signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: PZ-2 Date: 6-19-23

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 sampling Equipment and Bottles Across concrete Channel.

Concrete Pad:

Integrity: Good: _____ Inadequate: _____

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

Remarks: NO concrete pad

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: _____

Measurment 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 6-19-23

Signed Title Date

Geo-Logic ASSOCIATES

Geologists • Hydrogeologists • Engineers

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	SUNSHINE CANYON	**Project No.:**	S022.1227
Well I.D.:	PZ-4	**Sampling Date:**	6/20/2023
Collected By:	NR	**Purge start Time:**	1114
Casing Diameter (inches):	2	**Purge Stop time:**	1138
Starting Water Level:	109.76	**Sampling (Well Recovery) Time:**	1155
Total Depth (feet):		**Ending Water Level (feet):**	113.88
Water column (feet):		**Total Purged (gallons):**	2¾
Screen Length (feet):		**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		*BLANKS COLLECTED HERE*
Horiba Model S/N:	U-52 / W5HOV5A6		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1122	1		7.02	1.72	17.1	3.61	23.91	-193
1126	1½	112.92	7.02	1.73	7.5	3.29	23.79	-190
1130	2	113.28	7.02	1.72	4.1	3.12	23.76	-185
1133	2¼	113.52	7.02	1.72	3.4	3.04	23.75	-183
1135	2½	113.73	7.01	1.71	3.6	2.97	23.74	-180
1138	2¾	113.88	7.01	1.71	3.4	2.91	23.74	-178

Purge Sampling Rates: 95 PSI REFILL (30) DISCHARGE (19)

Well condition: OK - WATER CLEAR w/ NO ODOR

Additional Info/Comments: SUNNY, MILD TEMP

Name: NICHOLAS REASON **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: SUNSHINE CANYON Well ID: PZ-4 Date: 06-20-2023

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:

Protective Outer Casing: Material: FLUSHMOUNT

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: N/A Damaged: _____

Condition of Lock: Good: N/A Damaged: _____

Condition of Weepholes: Good: N/A Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment 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: _____ Field Tech 6/20/2023

Signed Title Date

Geo-Logic ASSOCIATES

Geologists • Hydrogeologists • Engineers

GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	Project No.:	8022.1032
Well I.D.:	DW-5	Sampling Date:	6/20/23
Collected By:	MA	Purge start Time:	~~0956~~ 1000
Casing Diameter (inches):	4"	Purge Stop time:	1023
Starting Water Level:	12.95	Sampling (Well Recovery) Time:	1040
Total Depth (feet):	100.45	Ending Water Level (feet):	16.74
Water column (feet):	87.5	Total Purged (gallons):	2 1/2
Screen Length (feet):		Duplicate Sample:	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U52 DLLCYV06		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1006	1/2	13.39	8.18	1.69	1.4	0.47	20.03	85
1009	3/4	14.64	8.08	1.69	16.3	0.27	19.98	24
1011	1	14.78	8.24	1.67	50.9	0.21	19.96	-6
1013	1 1/4	15.09	8.15	1.66	80.8	0.19	20.00	-27
1015	1 1/2	15.40	8.09	1.66	116	0.17	19.99	-43
1017	1 3/4 ~~1 3/4~~	15.71	8.12	1.66	163.5	0.14	20.00	-60
1020	2	16.13	8.17	1.66	168	0.12	20.07	-74
1021	2 1/4	16.43	8.12	1.66	164	0.10	20.00	-73
1023	2 1/2	16.74	8.14	1.66	160	0.13	19.99	-79

Purge Sampling Rates: PSI @ 55, Refill @ 30, Discharge @ 23

Well condition: OK water looks cloudy w/ no odor

Additional Info/Comments: Sunny, light wind

Name: Marcos Ayala **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: DW-5 Date: 6/20/23

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 ~~AM~~ is 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: _____

Measurment 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: _____

Signed Title Date

Geo-Logic
ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Sunshine Cyn **Project No.:** 5022.1032

Station I.D.: LY-6 **Sampling Date:** 6-20-23
Collected By: MC, NA **Sampling Time:** N/A
Horiba Model S/N: N/A **Duplicate Sample:** YES (NO)

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
			N/A				

Surface water conditions (including stream flow rate, stream depth): Lysimeter is Dry obstruction at 4.0 ft, Mud on sounder tip Check with Mark Vincent for Islet elevation transducer in lysimeter

Additional Info/Comments: clear, hot

Mike Campbell Mike Campbell

Geo-Logic ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Sunshine Cyn **Project No.:** _____

Station I.D.: LY-7 **Sampling Date:** 6-20-23
Collected By: MC **Sampling Time:** 8:50
Horiba Model S/N: U-52/ w541280Pp **Duplicate Sample:** YES (NO)

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Yellow	yes	6.74	6.31	0.0	2.37	25.33	-40

Surface water conditions (including stream flow rate, stream depth): Sampled from Sample port

Additional Info/Comments: Clear, warm, windy

Mike Campbell

Geo-Logic
ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

Site Name: Sunshine Cyn **Project No.:** 5022.1032

Station I.D.: Combined Subdrain **Sampling Date:** 6-20-23

Collected By: MC **Sampling Time:** 10:50

Horiba Model S/N: U-53 / WSYIWBDD **Duplicate Sample:** YES (NO)

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
light yellow	yes	5.89	4.44	3.1	1.39	24.45	8

Surface water conditions (including stream flow rate, stream depth): Sampled from Sample port

Additional Info/Comments: Clear, hot

Mike Campbell

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon **PROJECT NAME / NUMBER** 5022.1227

Instrument Make/Model # 4-52 WQC/R6GRS						
Date/Time 6-19-23 0729	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.20	4.46	0.6	10.95		
Calibration	4.00	4.49	0.0	8.18		
Calibration Successful? (Y/N)	Yes				enter YES or NO	
Satifies Protocol?	Yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	CRV				Signature or initials	
Physical Condition of Unit	OK					

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

2022.1227

LOCATION (Site/Facility Name) Sunshine **PROJECT NAME / NUMBER** ~~DLLCYC06~~ NA

Instrument Make/Model # DLLCYC06 Horiba U-52						
Date/Time 06/19/2023 0744	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	5.88	13.36	278	14.39		
Calibration	3.98	4.49	~~0~~	8.56		
Calibration Successful? (Y/N)	Yes	Yes	Yes	Yes	enter YES or NO	
Satifies Protocol?	Yes	Yes	Yes	Yes	Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	NA	NA	NA	NA	Signature or initials	NA
Physical Condition of Unit						

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) SUNSHINE CANYON **PROJECT NAME / NUMBER** S022.1227

Instrument Make/Model #	HORIBA U-52 (DLLCYV86)					
Date/Time 6/19/23 1055	pH	Electrical Conductivity (µMhos/cm) (4.49 mg/Kg)	Turbidity (NTU) (0)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	2.33	4.39	2.4	9.04		
Calibration	4.00	4.48	0.1	8.76		RECALIBRATED HORIBA DUE TO UNUSAL LOW pH READINGS AT WELLS CM-11R AND CM-9R3
Calibration Successful? (Y/N)	Y				enter YES or NO	
Satifies Protocol?	Y				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	NR				Signature or initials	
Physical Condition of Unit		GOOD				

Geo-Logic
ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Cyn **PROJECT NAME / NUMBER** _____

Instrument Make/Model # Horiba U52 w 5Y1W 6AG						
Date/Time 6-20-23 7:07	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.01	4.52	0.0	10.40		
Calibration	4.00	4.48	0.0	8.74		
Calibration Successful? (Y/N)	Yes				enter YES or NO	
Satifies Protocol?	Yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	[illegible]				Signature or initials	[illegible]
Physical Condition of Unit	Good					

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine **PROJECT NAME / NUMBER** S022.1227

Instrument Make/Model #	Horiba U-52 DLLCYV06					
Date/Time 6/20/23 0700	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.07	4.54	3.4	9.82		
Calibration	4.0	4.48	0.0	8.70		
Calibration Successful? (Y/N)	Yes	Yes	Yes	Yes	enter YES or NO	
Satifies Protocol?	Yes	Yes	Yes	Yes	Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	MA	MA	MA	MA	Signature or initials	MA
Physical Condition of Unit						

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon **PROJECT NAME / NUMBER** 5022.1227

Instrument Make/Model #	Horiba U-52 (W5H0V5A6)					
Date/Time 6/20/23 0745	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.19	4.57	0.0	10.97		
Calibration	4.00	4.50	0.1	10.19		
Calibration Successful? (Y/N)	Y				enter YES or NO	
Satifies Protocol?	Y				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	NR				Signature or initials	
Physical Condition of Unit		Good				

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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Client Information	Sampler: NR, MA, CV	Lab PM: Rossina Tomova	Carrier Tracking No(s):	COC No:
Client Contact: Kyle Welchans	Phone: 858 - 451-1136	E-Mail:		Page: 1 of 1
Company: Geo-Logic Associates				Job #:
Address: 11415 W Bernardo Ct	Due Date Requested:			
City: San Diego	TAT Requested (days):			
State, Zip: CA 92127				
Phone: 858 - 451-1136	PO #:			
Email: kwelchans@geo-logic.com	WO #:			
Project Name: Replublic Services, Inc	Project #: S022-1227			
Site: Sunshine Canyon Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 8260B VOCs	EPA 8270 - 1,4 Dioxane	EPA 310.1 - Total Alkalinity and Bicarbonate	EPA 350.2 - Ammonia as N	EPA 410.4 - COD	EPA 300.0 - Chloride, Bromide, Nitrate-N, Sulfate	EPA 6010B - Total B, Ca, Fe, Mg, Mn, K, Na	EPA 160.1 Total Dissolved Solids	EPA 415.1 - Total Organic Carbon	EPA 340.2 - Fluoride	EPA 376.2 - Sulfide	SM-4500-CO2C - Carbon Dioxide	Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
CM-9R3	6/19/23	1035	G	GW			x	x	x	x	x	x	x	x	x	x	x	x		
CM-10R		1145					x	x	x	x	x	x	x	x	x	x	x	x		
CM-11R		0913					x	x	x	x	x	x	x	x	x	x	x	x		
MW-6		1234					x	x	x	x	x	x	x	x	x	x	x	x		
MW-14		1025					x	x	x	x	x	x	x	x	x	x	x	x		
DW-2		1255					x	x	x	x	x	x	x	x	x	x	x	x		
PZ-2		0952					x	x	x	x	x	x	x	x	x	x	x	x		
Duplicate		—					x	x	x	x	x	x	x	x	x	x	x	x		
Field Blank		—		LAB H_2O			x													
Trip Blank		—		LAB H_2O			x													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		6/19/23 / 1415	GLA		6/19/23 1418	EC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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Client Information

Client Contact:	Kyle Welchans
Company:	Geo-Logic Associates
Address:	11415 W Bernardo Ct
City:	San Diego
State, Zip:	CA 92127
Phone:	858 - 451-1136
Email:	kwelchans@geo-logic.com
Project Name:	Replublic Services, Inc
Site:	Sunshine Canyon Landfill

Sampler:	
Phone:	858 - 451-1136
Lab PM:	Rossina Tomova
E-Mail:	
Carrier Tracking No(s):	
COC No:	
Page:	1 of 1
Job #:	
Due Date Requested:	
TAT Requested (days):	
PO #:	
WO #:	
Project #:	5022.1227
SSOW#:	

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 8260B VOCs	EPA 8270 - 1,4 Dioxane	EPA 310.1 - Total Alkalinity and Bicarbonate	EPA 350.2 - Ammonia as N	EPA 410.4 - COD	EPA 300.0 - Chloride, Bromide, Nitrate-N, Sulfate	EPA 6010B - Total B, Ca, Fe, Mg, Mn, K, Na	EPA 160.1 Total Dissolved Solids	EPA 415.1 - Total Organic Carbon	EPA 340.2 - Fluoride	EPA 376.2 - Sulfide	SM-4500-CO2C - Carbon Dioxide		Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
PZ-4	6/20/23	1155	G	GW		X	X	X	X	X	X	X	X	X	X	X	X	X			
MW-13R		0932				X	X	X	X	X	X	X	X	X	X	X	X	X			
MW-5		0815				X	X	X	X	X	X	X	X	X	X	X	X	X			
MW-1		0930				X	X	X	X	X	X	X	X	X	X	X	X	X			
DW-5		1040				X	X	X	X	X	X	X	X	X	X	X	X	X			
DW-3		1205				X	X	X	X	X	X	X	X	X	X	X	X	X			
COMBINED SUBDRAIN		1050				X	X	X	X	X	X	X	X	X	X	X	X	X			
LY-7		0850				X	X	X	X	X	X	X	X	X	X	X	X	X			
Field Blank		—		LAB H2O		X															
Trip Blank		—		LAB H2O		X															

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment:
Relinquished by:	Date/Time: 6-20-23 1325	Company: GLA	Received by:	Date/Time: 6/20/23 1325	Company: EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Welchans
Geo-Logic Associates
11415 West Bernardo Court
Suite 200
San Diego, California 92127

Generated 7/3/2023 8:55:46 AM

JOB DESCRIPTION

Republic Sunshine Canyon 2023

JOB NUMBER

570-142231-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

myEOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

Generated
7/3/2023 8:55:46 AM

Authorized for release by
Rossina Tomova, Project Manager I
Rossina.Tomova@et.eurofinsus.com
(657)210-6367

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Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-142231-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-142231-1

Comments
No additional comments.

Receipt
The samples were received on 6/19/2023 5:07 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6º C and 1.8º C.

GC/MS VOA
Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-338774. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-339374. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC
Method 300.0: Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 570-338717 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300.0: The following sample was diluted due to the nature of the sample matrix: PZ-2 (570-142231-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method SM 4500 CO2 D: The method blank for analytical batch 570-339011 contained CO2 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-339562. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.Method: 8270_SIM_MS_ID.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: CM-9R3 — Lab Sample ID: 570-142231-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromide	0.27		0.10	0.041	mg/L	1		300.0	Total/NA
Nitrate as N	0.56		0.10	0.020	mg/L	1		300.0	Total/NA
Chloride	19		1.0	0.36	mg/L	1		300.0	Total/NA
Fluoride	1.2		0.10	0.046	mg/L	1		300.0	Total/NA
Sulfate - DL	2500		100	24	mg/L	100		300.0	Total/NA
Boron	1.4		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	390		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	1.0		0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	230		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	1.9		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	13		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	320		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	1.0		0.075	0.029	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	38	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	99		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	99		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3800		25	22	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	96	B	1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Carbon, Total Organic	13		5.0	2.6	mg/L	10		SM 5310D	Total/NA

Client Sample ID: CM-10R — Lab Sample ID: 570-142231-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.3		1.0	0.36	mg/L	1		300.0	Total/NA
Fluoride	1.1		0.10	0.046	mg/L	1		300.0	Total/NA
Sulfate - DL	1400		100	24	mg/L	100		300.0	Total/NA
Boron	1.0		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	290		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	2.7		0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	180		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	0.64		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	12		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	190		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	9.5		0.075	0.029	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	19	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	350		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	350		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2700		20	17	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	310	B	1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Carbon, Total Organic	2.5		0.50	0.26	mg/L	1		SM 5310D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: CM-11R — Lab Sample ID: 570-142231-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	2.7		0.10	0.020	mg/L	1		300.0	Total/NA
Chloride	9.0		1.0	0.36	mg/L	1		300.0	Total/NA
Fluoride	1.7		0.10	0.046	mg/L	1		300.0	Total/NA
Sulfate - DL	1800		100	24	mg/L	100		300.0	Total/NA
Boron	0.90		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	260		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	0.042	J	0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	160		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	2.3		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	8.8		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	310		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	0.54		0.075	0.029	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	22	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	29		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	29		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3000		20	17	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	28	B	1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Carbon, Total Organic	5.9		2.0	1.1	mg/L	4		SM 5310D	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 570-142231-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromide	0.73		0.10	0.041	mg/L	1		300.0	Total/NA
Chloride	18		1.0	0.36	mg/L	1		300.0	Total/NA
Fluoride	0.99		0.10	0.046	mg/L	1		300.0	Total/NA
Sulfate - DL	2000		100	24	mg/L	100		300.0	Total/NA
Boron	0.76		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	410		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	0.97		0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	220		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	1.1		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	5.9		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	330		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	0.83		0.075	0.029	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	38	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	470		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	470		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3600		50	44	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	420	B	1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Sulfide	7.3		0.50	0.17	mg/L	10		SM 4500 S2 D	Total/NA
Carbon, Total Organic	5.3		2.0	1.1	mg/L	4		SM 5310D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: MW-14 — Lab Sample ID: 570-142231-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.8		0.20	0.082	mg/L	2		300.0	Total/NA
Nitrate as N	0.44		0.20	0.039	mg/L	2		300.0	Total/NA
Chloride	100		2.0	0.72	mg/L	2		300.0	Total/NA
Fluoride	1.4		0.20	0.092	mg/L	2		300.0	Total/NA
Sulfate - DL	3200		100	24	mg/L	100		300.0	Total/NA
Boron	0.57		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	590		4.0	0.055	mg/L	2		6010B	Total Recoverable
Iron	0.070	J	0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	400		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	4.2		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	9.2		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	450		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	0.037	J	0.075	0.029	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	31	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	540		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	540		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	6000		100	87	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	490	B	1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Carbon, Total Organic	9.5		2.0	1.1	mg/L	4		SM 5310D	Total/NA

Client Sample ID: DW-2 — Lab Sample ID: 570-142231-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.1		1.0	0.36	mg/L	1		300.0	Total/NA
Fluoride	0.48		0.10	0.046	mg/L	1		300.0	Total/NA
Sulfate - DL	890		100	24	mg/L	100		300.0	Total/NA
Boron	0.69		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	52		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	0.79		0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	36		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	0.071		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	3.5		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	470		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	2.9		0.075	0.029	mg/L	1		350.1	Total/NA
Alkalinity, Total (As CaCO3)	380		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	380		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1800		20	17	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	340	B	1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Carbon, Total Organic	1.3		0.50	0.26	mg/L	1		SM 5310D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: PZ-2 — Lab Sample ID: 570-142231-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13		2.0	0.72	mg/L	2		300.0	Total/NA
Fluoride	0.66		0.20	0.092	mg/L	2		300.0	Total/NA
Sulfate - DL	2500		40	9.5	mg/L	40		300.0	Total/NA
Boron	1.4		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	49		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	0.048	J	0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	42		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	0.071		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	3.5		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	1200		4.0	0.62	mg/L	2		6010B	Total Recoverable
Ammonia (as N)	3.1		0.075	0.029	mg/L	1		350.1	Total/NA
Alkalinity, Total (As CaCO3)	340		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	340		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3900		50	44	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	300	B	1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Carbon, Total Organic	1.9		0.50	0.26	mg/L	1		SM 5310D	Total/NA

Client Sample ID: DUPLICATE — Lab Sample ID: 570-142231-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromide	0.26		0.10	0.041	mg/L	1		300.0	Total/NA
Nitrate as N	0.53		0.10	0.020	mg/L	1		300.0	Total/NA
Chloride	19		1.0	0.36	mg/L	1		300.0	Total/NA
Fluoride	1.2		0.10	0.046	mg/L	1		300.0	Total/NA
Sulfate - DL	2400		100	24	mg/L	100		300.0	Total/NA
Boron	1.4		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	410		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	1.0		0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	240		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	2.0		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	14		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	330		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	1.0		0.075	0.029	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	38	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	99		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	99		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3700		50	44	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	93	B	1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Carbon, Total Organic	11		0.50	0.26	mg/L	1		SM 5310D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: FIELD BLANK — Lab Sample ID: 570-142231-9

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 570-142231-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: CM-9R3
Date Collected: 06/19/23 10:35
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/20/23 13:20	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/20/23 13:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/20/23 13:20	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/20/23 13:20	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/20/23 13:20	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/20/23 13:20	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/20/23 13:20	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/20/23 13:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/20/23 13:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/20/23 13:20	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/20/23 13:20	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/20/23 13:20	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/20/23 13:20	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/20/23 13:20	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/20/23 13:20	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/20/23 13:20	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/20/23 13:20	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/20/23 13:20	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/20/23 13:20	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/20/23 13:20	1
2-Hexanone	ND		6.0	2.0	ug/L			06/20/23 13:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/20/23 13:20	1
Acetone	ND		8.0	3.6	ug/L			06/20/23 13:20	1
Acrolein	ND		4.0	3.6	ug/L			06/20/23 13:20	1
Allyl chloride	ND		2.0	0.47	ug/L			06/20/23 13:20	1
Benzene	ND		0.50	0.14	ug/L			06/20/23 13:20	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/20/23 13:20	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/20/23 13:20	1
Bromoform	ND		0.50	0.28	ug/L			06/20/23 13:20	1
Bromomethane	ND		2.0	1.9	ug/L			06/20/23 13:20	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/20/23 13:20	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/20/23 13:20	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/20/23 13:20	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/20/23 13:20	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/20/23 13:20	1
Chloroethane	ND		0.50	0.38	ug/L			06/20/23 13:20	1
Chloroform	ND		0.50	0.17	ug/L			06/20/23 13:20	1
Chloromethane	ND		1.0	0.65	ug/L			06/20/23 13:20	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/20/23 13:20	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/20/23 13:20	1
Dibromomethane	ND		0.50	0.16	ug/L			06/20/23 13:20	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/20/23 13:20	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/20/23 13:20	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/20/23 13:20	1
Iodomethane	ND		25	8.7	ug/L			06/20/23 13:20	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/20/23 13:20	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/20/23 13:20	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/20/23 13:20	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/20/23 13:20	1

Client Sample ID: CM-9R3

Date Collected: 06/19/23 10:35
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/20/23 13:20	1
o-Xylene	ND		0.50	0.18	ug/L			06/20/23 13:20	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/20/23 13:20	1
Propionitrile	ND		5.0	3.1	ug/L			06/20/23 13:20	1
Styrene	ND		0.50	0.27	ug/L			06/20/23 13:20	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/20/23 13:20	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/20/23 13:20	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/20/23 13:20	1
t-Butanol	ND		5.0	3.1	ug/L			06/20/23 13:20	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/20/23 13:20	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/20/23 13:20	1
Toluene	ND		0.50	0.14	ug/L			06/20/23 13:20	1
Trichloroethene	ND		0.50	0.15	ug/L			06/20/23 13:20	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/20/23 13:20	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/20/23 13:20	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/20/23 13:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/20/23 13:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*		*06/20/23 13:20*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*06/20/23 13:20*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/20/23 13:20*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/20/23 13:20*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/21/23 23:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/21/23 23:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 132*		*06/21/23 23:47*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*06/21/23 23:47*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/21/23 23:47*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/21/23 23:47*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.38	0.26	ug/L		06/22/23 08:48	06/24/23 00:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*21 - 120*	*06/22/23 08:48*	*06/24/23 00:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*93*		*58 - 135*	*06/22/23 08:48*	*06/24/23 00:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.27**		0.10	0.041	mg/L			06/20/23 07:24	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: CM-9R3
Date Collected: 06/19/23 10:35
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-1
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.56		0.10	0.020	mg/L			06/20/23 07:24	1
Chloride	19		1.0	0.36	mg/L			06/20/23 07:24	1
Fluoride	1.2		0.10	0.046	mg/L			06/20/23 07:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2500		100	24	mg/L			06/20/23 11:30	100

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4		0.50	0.0039	mg/L		06/20/23 06:34	06/20/23 15:15	1
Calcium	390		2.0	0.028	mg/L		06/20/23 06:34	06/20/23 15:15	1
Iron	1.0		0.50	0.013	mg/L		06/20/23 06:34	06/20/23 15:15	1
Magnesium	230		0.50	0.048	mg/L		06/20/23 06:34	06/20/23 15:15	1
Manganese	1.9		0.050	0.0013	mg/L		06/20/23 06:34	06/20/23 15:15	1
Potassium	13		2.0	0.58	mg/L		06/20/23 06:34	06/20/23 15:15	1
Sodium	320		2.0	0.31	mg/L		06/20/23 06:34	06/20/23 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	1.0		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 12:57	1
Chemical Oxygen Demand (EPA 410.4)	38	J	100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	99		5.0	2.2	mg/L			06/20/23 13:48	1
Bicarbonate (as CaCO3) (SM 2320B)	99		5.0	2.2	mg/L			06/20/23 13:48	1
Total Dissolved Solids (SM 2540C)	3800		25	22	mg/L			06/20/23 18:54	1
Carbon dioxide (SM 4500 CO2 D)	96	B	1.0	0.59	mg/L			06/20/23 13:48	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.017	mg/L			06/20/23 16:59	1
Carbon, Total Organic (SM 5310D)	13		5.0	2.6	mg/L			06/20/23 21:36	10

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: CM-10R
Date Collected: 06/19/23 11:45
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/20/23 13:45	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/20/23 13:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/20/23 13:45	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/20/23 13:45	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/20/23 13:45	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/20/23 13:45	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/20/23 13:45	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/20/23 13:45	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/20/23 13:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/20/23 13:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/20/23 13:45	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/20/23 13:45	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/20/23 13:45	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/20/23 13:45	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/20/23 13:45	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/20/23 13:45	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/20/23 13:45	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/20/23 13:45	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/20/23 13:45	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/20/23 13:45	1
2-Hexanone	ND		6.0	2.0	ug/L			06/20/23 13:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/20/23 13:45	1
Acetone	ND		8.0	3.6	ug/L			06/20/23 13:45	1
Acrolein	ND		4.0	3.6	ug/L			06/20/23 13:45	1
Allyl chloride	ND		2.0	0.47	ug/L			06/20/23 13:45	1
Benzene	ND		0.50	0.14	ug/L			06/20/23 13:45	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/20/23 13:45	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/20/23 13:45	1
Bromoform	ND		0.50	0.28	ug/L			06/20/23 13:45	1
Bromomethane	ND		2.0	1.9	ug/L			06/20/23 13:45	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/20/23 13:45	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/20/23 13:45	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/20/23 13:45	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/20/23 13:45	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/20/23 13:45	1
Chloroethane	ND		0.50	0.38	ug/L			06/20/23 13:45	1
Chloroform	ND		0.50	0.17	ug/L			06/20/23 13:45	1
Chloromethane	ND		1.0	0.65	ug/L			06/20/23 13:45	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/20/23 13:45	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/20/23 13:45	1
Dibromomethane	ND		0.50	0.16	ug/L			06/20/23 13:45	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/20/23 13:45	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/20/23 13:45	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/20/23 13:45	1
Iodomethane	ND		25	8.7	ug/L			06/20/23 13:45	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/20/23 13:45	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/20/23 13:45	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/20/23 13:45	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/20/23 13:45	1

Client Sample ID: CM-10R
Date Collected: 06/19/23 11:45
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/20/23 13:45	1
o-Xylene	ND		0.50	0.18	ug/L			06/20/23 13:45	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/20/23 13:45	1
Propionitrile	ND		5.0	3.1	ug/L			06/20/23 13:45	1
Styrene	ND		0.50	0.27	ug/L			06/20/23 13:45	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/20/23 13:45	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/20/23 13:45	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/20/23 13:45	1
t-Butanol	ND		5.0	3.1	ug/L			06/20/23 13:45	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/20/23 13:45	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/20/23 13:45	1
Toluene	ND		0.50	0.14	ug/L			06/20/23 13:45	1
Trichloroethene	ND		0.50	0.15	ug/L			06/20/23 13:45	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/20/23 13:45	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/20/23 13:45	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/20/23 13:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/20/23 13:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*		*06/20/23 13:45*	*1*
4-Bromofluorobenzene (Surr)	*88*		*76 - 120*		*06/20/23 13:45*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*06/20/23 13:45*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/20/23 13:45*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 00:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/22/23 00:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 132*		*06/22/23 00:11*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*06/22/23 00:11*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/22/23 00:11*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/22/23 00:11*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.38	0.26	ug/L		06/22/23 08:48	06/24/23 00:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*21 - 120*	*06/22/23 08:48*	*06/24/23 00:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*110*		*58 - 135*	*06/22/23 08:48*	*06/24/23 00:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	0.041	mg/L			06/20/23 07:41	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: CM-10R
Date Collected: 06/19/23 11:45
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10	0.020	mg/L			06/20/23 07:41	1
Chloride	3.3		1.0	0.36	mg/L			06/20/23 07:41	1
Fluoride	1.1		0.10	0.046	mg/L			06/20/23 07:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1400		100	24	mg/L			06/20/23 12:38	100

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0		0.50	0.0039	mg/L		06/20/23 06:34	06/20/23 15:18	1
Calcium	290		2.0	0.028	mg/L		06/20/23 06:34	06/20/23 15:18	1
Iron	2.7		0.50	0.013	mg/L		06/20/23 06:34	06/20/23 15:18	1
Magnesium	180		0.50	0.048	mg/L		06/20/23 06:34	06/20/23 15:18	1
Manganese	0.64		0.050	0.0013	mg/L		06/20/23 06:34	06/20/23 15:18	1
Potassium	12		2.0	0.58	mg/L		06/20/23 06:34	06/20/23 15:18	1
Sodium	190		2.0	0.31	mg/L		06/20/23 06:34	06/20/23 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	9.5		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:07	1
Chemical Oxygen Demand (EPA 410.4)	19	J	100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	350		5.0	2.2	mg/L			06/20/23 13:48	1
Bicarbonate (as CaCO3) (SM 2320B)	350		5.0	2.2	mg/L			06/20/23 13:48	1
Total Dissolved Solids (SM 2540C)	2700		20	17	mg/L			06/20/23 18:54	1
Carbon dioxide (SM 4500 CO2 D)	310	B	1.0	0.59	mg/L			06/20/23 13:48	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.017	mg/L			06/20/23 16:59	1
Carbon, Total Organic (SM 5310D)	2.5		0.50	0.26	mg/L			06/20/23 21:55	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: CM-11R
Date Collected: 06/19/23 09:13
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/20/23 14:10	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/20/23 14:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/20/23 14:10	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/20/23 14:10	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/20/23 14:10	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/20/23 14:10	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/20/23 14:10	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/20/23 14:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/20/23 14:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/20/23 14:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/20/23 14:10	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/20/23 14:10	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/20/23 14:10	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/20/23 14:10	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/20/23 14:10	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/20/23 14:10	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/20/23 14:10	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/20/23 14:10	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/20/23 14:10	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/20/23 14:10	1
2-Hexanone	ND		6.0	2.0	ug/L			06/20/23 14:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/20/23 14:10	1
Acetone	ND		8.0	3.6	ug/L			06/20/23 14:10	1
Acrolein	ND		4.0	3.6	ug/L			06/20/23 14:10	1
Allyl chloride	ND		2.0	0.47	ug/L			06/20/23 14:10	1
Benzene	ND		0.50	0.14	ug/L			06/20/23 14:10	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/20/23 14:10	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/20/23 14:10	1
Bromoform	ND		0.50	0.28	ug/L			06/20/23 14:10	1
Bromomethane	ND		2.0	1.9	ug/L			06/20/23 14:10	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/20/23 14:10	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/20/23 14:10	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/20/23 14:10	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/20/23 14:10	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/20/23 14:10	1
Chloroethane	ND		0.50	0.38	ug/L			06/20/23 14:10	1
Chloroform	ND		0.50	0.17	ug/L			06/20/23 14:10	1
Chloromethane	ND		1.0	0.65	ug/L			06/20/23 14:10	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/20/23 14:10	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/20/23 14:10	1
Dibromomethane	ND		0.50	0.16	ug/L			06/20/23 14:10	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/20/23 14:10	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/20/23 14:10	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/20/23 14:10	1
Iodomethane	ND		25	8.7	ug/L			06/20/23 14:10	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/20/23 14:10	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/20/23 14:10	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/20/23 14:10	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/20/23 14:10	1

Client Sample ID: CM-11R

Date Collected: 06/19/23 09:13
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-3

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/20/23 14:10	1
o-Xylene	ND		0.50	0.18	ug/L			06/20/23 14:10	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/20/23 14:10	1
Propionitrile	ND		5.0	3.1	ug/L			06/20/23 14:10	1
Styrene	ND		0.50	0.27	ug/L			06/20/23 14:10	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/20/23 14:10	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/20/23 14:10	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/20/23 14:10	1
t-Butanol	ND		5.0	3.1	ug/L			06/20/23 14:10	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/20/23 14:10	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/20/23 14:10	1
Toluene	ND		0.50	0.14	ug/L			06/20/23 14:10	1
Trichloroethene	ND		0.50	0.15	ug/L			06/20/23 14:10	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/20/23 14:10	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/20/23 14:10	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/20/23 14:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/20/23 14:10*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 132*		*06/20/23 14:10*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*06/20/23 14:10*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*06/20/23 14:10*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/20/23 14:10*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 00:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/22/23 00:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 132*		*06/22/23 00:36*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*06/22/23 00:36*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*06/22/23 00:36*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/22/23 00:36*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.39	0.27	ug/L		06/22/23 08:48	06/24/23 00:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*21 - 120*	*06/22/23 08:48*	*06/24/23 00:44*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*112*		*58 - 135*	*06/22/23 08:48*	*06/24/23 00:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	0.041	mg/L			06/20/23 07:58	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: CM-11R
Date Collected: 06/19/23 09:13
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-3
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.7		0.10	0.020	mg/L			06/20/23 07:58	1
Chloride	9.0		1.0	0.36	mg/L			06/20/23 07:58	1
Fluoride	1.7		0.10	0.046	mg/L			06/20/23 07:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1800		100	24	mg/L			06/20/23 12:55	100

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.90		0.50	0.0039	mg/L		06/20/23 06:34	06/20/23 15:20	1
Calcium	260		2.0	0.028	mg/L		06/20/23 06:34	06/20/23 15:20	1
Iron	0.042	J	0.50	0.013	mg/L		06/20/23 06:34	06/20/23 15:20	1
Magnesium	160		0.50	0.048	mg/L		06/20/23 06:34	06/20/23 15:20	1
Manganese	2.3		0.050	0.0013	mg/L		06/20/23 06:34	06/20/23 15:20	1
Potassium	8.8		2.0	0.58	mg/L		06/20/23 06:34	06/20/23 15:20	1
Sodium	310		2.0	0.31	mg/L		06/20/23 06:34	06/20/23 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	0.54		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 12:58	1
Chemical Oxygen Demand (EPA 410.4)	22	J	100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	29		5.0	2.2	mg/L			06/20/23 13:48	1
Bicarbonate (as CaCO3) (SM 2320B)	29		5.0	2.2	mg/L			06/20/23 13:48	1
Total Dissolved Solids (SM 2540C)	3000		20	17	mg/L			06/20/23 18:54	1
Carbon dioxide (SM 4500 CO2 D)	28	B	1.0	0.59	mg/L			06/20/23 13:48	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.017	mg/L			06/20/23 16:59	1
Carbon, Total Organic (SM 5310D)	5.9		2.0	1.1	mg/L			06/20/23 22:15	4

Client Sample ID: MW-6
Lab Sample ID: 570-142231-4
Date Collected: 06/19/23 12:34
Matrix: Water
Date Received: 06/19/23 17:07

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/20/23 14:35	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/20/23 14:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/20/23 14:35	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/20/23 14:35	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/20/23 14:35	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/20/23 14:35	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/20/23 14:35	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/20/23 14:35	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/20/23 14:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/20/23 14:35	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/20/23 14:35	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/20/23 14:35	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/20/23 14:35	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/20/23 14:35	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/20/23 14:35	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/20/23 14:35	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/20/23 14:35	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/20/23 14:35	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/20/23 14:35	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/20/23 14:35	1
2-Hexanone	ND		6.0	2.0	ug/L			06/20/23 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/20/23 14:35	1
Acetone	ND		8.0	3.6	ug/L			06/20/23 14:35	1
Acrolein	ND		4.0	3.6	ug/L			06/20/23 14:35	1
Allyl chloride	ND		2.0	0.47	ug/L			06/20/23 14:35	1
Benzene	ND		0.50	0.14	ug/L			06/20/23 14:35	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/20/23 14:35	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/20/23 14:35	1
Bromoform	ND		0.50	0.28	ug/L			06/20/23 14:35	1
Bromomethane	ND		2.0	1.9	ug/L			06/20/23 14:35	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/20/23 14:35	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/20/23 14:35	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/20/23 14:35	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/20/23 14:35	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/20/23 14:35	1
Chloroethane	ND		0.50	0.38	ug/L			06/20/23 14:35	1
Chloroform	ND		0.50	0.17	ug/L			06/20/23 14:35	1
Chloromethane	ND		1.0	0.65	ug/L			06/20/23 14:35	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/20/23 14:35	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/20/23 14:35	1
Dibromomethane	ND		0.50	0.16	ug/L			06/20/23 14:35	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/20/23 14:35	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/20/23 14:35	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/20/23 14:35	1
Iodomethane	ND		25	8.7	ug/L			06/20/23 14:35	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/20/23 14:35	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/20/23 14:35	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/20/23 14:35	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/20/23 14:35	1

Client Sample ID: MW-6
Date Collected: 06/19/23 12:34
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/20/23 14:35	1
o-Xylene	ND		0.50	0.18	ug/L			06/20/23 14:35	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/20/23 14:35	1
Propionitrile	ND		5.0	3.1	ug/L			06/20/23 14:35	1
Styrene	ND		0.50	0.27	ug/L			06/20/23 14:35	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/20/23 14:35	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/20/23 14:35	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/20/23 14:35	1
t-Butanol	ND		5.0	3.1	ug/L			06/20/23 14:35	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/20/23 14:35	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/20/23 14:35	1
Toluene	ND		0.50	0.14	ug/L			06/20/23 14:35	1
Trichloroethene	ND		0.50	0.15	ug/L			06/20/23 14:35	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/20/23 14:35	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/20/23 14:35	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/20/23 14:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cysteic acid	*87*	*T J N*	*ug/L*		*1.61*	*1000131-23-1*		*06/20/23 14:35*	*1*
Sulfur dioxide	*1500*	*T J N*	*ug/L*		*2.01*	*7446-09-5*		*06/20/23 14:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*		*06/20/23 14:35*	*1*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*06/20/23 14:35*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*06/20/23 14:35*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/20/23 14:35*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 01:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/22/23 01:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*		*06/22/23 01:01*	*1*
4-Bromofluorobenzene (Surr)	*92*		*76 - 120*		*06/22/23 01:01*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/22/23 01:01*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/22/23 01:01*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.38	0.26	ug/L		06/22/23 08:48	06/24/23 00:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*21 - 120*	*06/22/23 08:48*	*06/24/23 00:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*115*		*58 - 135*	*06/22/23 08:48*	*06/24/23 00:58*	*1*

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: MW-6

Date Collected: 06/19/23 12:34
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-4

Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.73		0.10	0.041	mg/L			06/20/23 08:15	1
Nitrate as N	ND		0.10	0.020	mg/L			06/20/23 08:15	1
Chloride	18		1.0	0.36	mg/L			06/20/23 08:15	1
Fluoride	0.99		0.10	0.046	mg/L			06/20/23 08:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2000		100	24	mg/L			06/20/23 13:29	100

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.76		0.50	0.0039	mg/L		06/20/23 06:34	06/20/23 15:23	1
Calcium	410		2.0	0.028	mg/L		06/20/23 06:34	06/20/23 15:23	1
Iron	0.97		0.50	0.013	mg/L		06/20/23 06:34	06/20/23 15:23	1
Magnesium	220		0.50	0.048	mg/L		06/20/23 06:34	06/20/23 15:23	1
Manganese	1.1		0.050	0.0013	mg/L		06/20/23 06:34	06/20/23 15:23	1
Potassium	5.9		2.0	0.58	mg/L		06/20/23 06:34	06/20/23 15:23	1
Sodium	330		2.0	0.31	mg/L		06/20/23 06:34	06/20/23 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	0.83		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:00	1
Chemical Oxygen Demand (EPA 410.4)	38	J	100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	470		5.0	2.2	mg/L			06/20/23 13:48	1
Bicarbonate (as CaCO3) (SM 2320B)	470		5.0	2.2	mg/L			06/20/23 13:48	1
Total Dissolved Solids (SM 2540C)	3600		50	44	mg/L			06/21/23 16:12	1
Carbon dioxide (SM 4500 CO2 D)	420	B	1.0	0.59	mg/L			06/20/23 13:48	1
Sulfide (SM 4500 S2 D)	7.3		0.50	0.17	mg/L			06/20/23 16:59	10
Carbon, Total Organic (SM 5310D)	5.3		2.0	1.1	mg/L			06/20/23 22:34	4

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: MW-14
Date Collected: 06/19/23 10:25
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/20/23 15:01	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/20/23 15:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/20/23 15:01	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/20/23 15:01	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/20/23 15:01	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/20/23 15:01	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/20/23 15:01	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/20/23 15:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/20/23 15:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/20/23 15:01	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/20/23 15:01	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/20/23 15:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/20/23 15:01	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/20/23 15:01	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/20/23 15:01	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/20/23 15:01	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/20/23 15:01	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/20/23 15:01	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/20/23 15:01	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/20/23 15:01	1
2-Hexanone	ND		6.0	2.0	ug/L			06/20/23 15:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/20/23 15:01	1
Acetone	ND		8.0	3.6	ug/L			06/20/23 15:01	1
Acrolein	ND		4.0	3.6	ug/L			06/20/23 15:01	1
Allyl chloride	ND		2.0	0.47	ug/L			06/20/23 15:01	1
Benzene	ND		0.50	0.14	ug/L			06/20/23 15:01	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/20/23 15:01	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/20/23 15:01	1
Bromoform	ND		0.50	0.28	ug/L			06/20/23 15:01	1
Bromomethane	ND		2.0	1.9	ug/L			06/20/23 15:01	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/20/23 15:01	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/20/23 15:01	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/20/23 15:01	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/20/23 15:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/20/23 15:01	1
Chloroethane	ND		0.50	0.38	ug/L			06/20/23 15:01	1
Chloroform	ND		0.50	0.17	ug/L			06/20/23 15:01	1
Chloromethane	ND		1.0	0.65	ug/L			06/20/23 15:01	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/20/23 15:01	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/20/23 15:01	1
Dibromomethane	ND		0.50	0.16	ug/L			06/20/23 15:01	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/20/23 15:01	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/20/23 15:01	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/20/23 15:01	1
Iodomethane	ND		25	8.7	ug/L			06/20/23 15:01	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/20/23 15:01	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/20/23 15:01	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/20/23 15:01	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/20/23 15:01	1

Client Sample ID: MW-14
Date Collected: 06/19/23 10:25
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/20/23 15:01	1
o-Xylene	ND		0.50	0.18	ug/L			06/20/23 15:01	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/20/23 15:01	1
Propionitrile	ND		5.0	3.1	ug/L			06/20/23 15:01	1
Styrene	ND		0.50	0.27	ug/L			06/20/23 15:01	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/20/23 15:01	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/20/23 15:01	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/20/23 15:01	1
t-Butanol	ND		5.0	3.1	ug/L			06/20/23 15:01	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/20/23 15:01	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/20/23 15:01	1
Toluene	ND		0.50	0.14	ug/L			06/20/23 15:01	1
Trichloroethene	ND		0.50	0.15	ug/L			06/20/23 15:01	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/20/23 15:01	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/20/23 15:01	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/20/23 15:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Sulfur dioxide	*420*	*T J N*	*ug/L*		*1.59*	*7446-09-5*		*06/20/23 15:01*	*1*
Unknown	*120*	*T J*	*ug/L*		*2.01*	*N/A*		*06/20/23 15:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 132*		*06/20/23 15:01*	*1*
4-Bromofluorobenzene (Surr)	*92*		*76 - 120*		*06/20/23 15:01*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/20/23 15:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/20/23 15:01*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 01:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/22/23 01:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 132*		*06/22/23 01:26*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*06/22/23 01:26*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/22/23 01:26*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/22/23 01:26*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.37	0.25	ug/L		06/22/23 08:48	06/24/23 01:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*21 - 120*	*06/22/23 08:48*	*06/24/23 01:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*103*		*58 - 135*	*06/22/23 08:48*	*06/24/23 01:13*	*1*

Client Sample Results

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: MW-14

Date Collected: 06/19/23 10:25
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-5

Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	1.8		0.20	0.082	mg/L			06/20/23 08:32	2
Nitrate as N	0.44		0.20	0.039	mg/L			06/20/23 08:32	2
Chloride	100		2.0	0.72	mg/L			06/20/23 08:32	2
Fluoride	1.4		0.20	0.092	mg/L			06/20/23 08:32	2

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3200		100	24	mg/L			06/20/23 13:46	100

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.57		0.50	0.0039	mg/L		06/20/23 06:34	06/20/23 15:25	1
Calcium	590		4.0	0.055	mg/L		06/20/23 06:34	06/21/23 10:47	2
Iron	0.070	J	0.50	0.013	mg/L		06/20/23 06:34	06/20/23 15:25	1
Magnesium	400		0.50	0.048	mg/L		06/20/23 06:34	06/20/23 15:25	1
Manganese	4.2		0.050	0.0013	mg/L		06/20/23 06:34	06/20/23 15:25	1
Potassium	9.2		2.0	0.58	mg/L		06/20/23 06:34	06/20/23 15:25	1
Sodium	450		2.0	0.31	mg/L		06/20/23 06:34	06/20/23 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	0.037	J	0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:01	1
Chemical Oxygen Demand (EPA 410.4)	31	J	100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	540		5.0	2.2	mg/L			06/20/23 13:48	1
Bicarbonate (as CaCO3) (SM 2320B)	540		5.0	2.2	mg/L			06/20/23 13:48	1
Total Dissolved Solids (SM 2540C)	6000		100	87	mg/L			06/21/23 16:13	1
Carbon dioxide (SM 4500 CO2 D)	490	B	1.0	0.59	mg/L			06/20/23 13:48	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.017	mg/L			06/20/23 16:59	1
Carbon, Total Organic (SM 5310D)	9.5		2.0	1.1	mg/L			06/20/23 22:53	4

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: DW-2

Date Collected: 06/19/23 12:55
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-6

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/20/23 15:26	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/20/23 15:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/20/23 15:26	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/20/23 15:26	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/20/23 15:26	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/20/23 15:26	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/20/23 15:26	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/20/23 15:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/20/23 15:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/20/23 15:26	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/20/23 15:26	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/20/23 15:26	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/20/23 15:26	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/20/23 15:26	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/20/23 15:26	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/20/23 15:26	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/20/23 15:26	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/20/23 15:26	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/20/23 15:26	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/20/23 15:26	1
2-Hexanone	ND		6.0	2.0	ug/L			06/20/23 15:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/20/23 15:26	1
Acetone	ND		8.0	3.6	ug/L			06/20/23 15:26	1
Acrolein	ND		4.0	3.6	ug/L			06/20/23 15:26	1
Allyl chloride	ND		2.0	0.47	ug/L			06/20/23 15:26	1
Benzene	ND		0.50	0.14	ug/L			06/20/23 15:26	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/20/23 15:26	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/20/23 15:26	1
Bromoform	ND		0.50	0.28	ug/L			06/20/23 15:26	1
Bromomethane	ND		2.0	1.9	ug/L			06/20/23 15:26	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/20/23 15:26	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/20/23 15:26	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/20/23 15:26	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/20/23 15:26	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/20/23 15:26	1
Chloroethane	ND		0.50	0.38	ug/L			06/20/23 15:26	1
Chloroform	ND		0.50	0.17	ug/L			06/20/23 15:26	1
Chloromethane	ND		1.0	0.65	ug/L			06/20/23 15:26	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/20/23 15:26	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/20/23 15:26	1
Dibromomethane	ND		0.50	0.16	ug/L			06/20/23 15:26	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/20/23 15:26	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/20/23 15:26	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/20/23 15:26	1
Iodomethane	ND		25	8.7	ug/L			06/20/23 15:26	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/20/23 15:26	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/20/23 15:26	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/20/23 15:26	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/20/23 15:26	1

Client Sample ID: DW-2
Date Collected: 06/19/23 12:55
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/20/23 15:26	1
o-Xylene	ND		0.50	0.18	ug/L			06/20/23 15:26	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/20/23 15:26	1
Propionitrile	ND		5.0	3.1	ug/L			06/20/23 15:26	1
Styrene	ND		0.50	0.27	ug/L			06/20/23 15:26	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/20/23 15:26	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/20/23 15:26	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/20/23 15:26	1
t-Butanol	ND		5.0	3.1	ug/L			06/20/23 15:26	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/20/23 15:26	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/20/23 15:26	1
Toluene	ND		0.50	0.14	ug/L			06/20/23 15:26	1
Trichloroethene	ND		0.50	0.15	ug/L			06/20/23 15:26	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/20/23 15:26	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/20/23 15:26	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/20/23 15:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Sulfur dioxide	*660*	*T J N*	*ug/L*		*1.61*	*7446-09-5*		*06/20/23 15:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*		*06/20/23 15:26*	*1*
4-Bromofluorobenzene (Surr)	*88*		*76 - 120*		*06/20/23 15:26*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/20/23 15:26*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/20/23 15:26*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 01:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/22/23 01:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 132*		*06/22/23 01:51*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*06/22/23 01:51*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/22/23 01:51*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/22/23 01:51*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.38	0.26	ug/L		06/22/23 08:48	06/24/23 01:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*42*		*21 - 120*	*06/22/23 08:48*	*06/24/23 01:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*115*		*58 - 135*	*06/22/23 08:48*	*06/24/23 01:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	0.041	mg/L			06/20/23 08:49	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: DW-2

Date Collected: 06/19/23 12:55
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-6

Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10	0.020	mg/L			06/20/23 08:49	1
Chloride	**9.1**		1.0	0.36	mg/L			06/20/23 08:49	1
Fluoride	**0.48**		0.10	0.046	mg/L			06/20/23 08:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**890**		100	24	mg/L			06/20/23 14:03	100

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.69**		0.50	0.0039	mg/L		06/20/23 06:34	06/20/23 15:27	1
Calcium	**52**		2.0	0.028	mg/L		06/20/23 06:34	06/20/23 15:27	1
Iron	**0.79**		0.50	0.013	mg/L		06/20/23 06:34	06/20/23 15:27	1
Magnesium	**36**		0.50	0.048	mg/L		06/20/23 06:34	06/20/23 15:27	1
Manganese	**0.071**		0.050	0.0013	mg/L		06/20/23 06:34	06/20/23 15:27	1
Potassium	**3.5**		2.0	0.58	mg/L		06/20/23 06:34	06/20/23 15:27	1
Sodium	**470**		2.0	0.31	mg/L		06/20/23 06:34	06/20/23 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**2.9**		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:03	1
Chemical Oxygen Demand (EPA 410.4)	ND		100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**380**		5.0	2.2	mg/L			06/20/23 13:48	1
Bicarbonate (as CaCO3) (SM 2320B)	**380**		5.0	2.2	mg/L			06/20/23 13:48	1
Total Dissolved Solids (SM 2540C)	**1800**		20	17	mg/L			06/21/23 16:13	1
Carbon dioxide (SM 4500 CO2 D)	**340**	**B**	1.0	0.59	mg/L			06/20/23 13:48	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.017	mg/L			06/20/23 16:59	1
Carbon, Total Organic (SM 5310D)	**1.3**		0.50	0.26	mg/L			06/20/23 23:13	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: PZ-2
Date Collected: 06/19/23 08:52
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/20/23 15:51	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/20/23 15:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/20/23 15:51	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/20/23 15:51	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/20/23 15:51	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/20/23 15:51	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/20/23 15:51	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/20/23 15:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/20/23 15:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/20/23 15:51	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/20/23 15:51	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/20/23 15:51	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/20/23 15:51	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/20/23 15:51	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/20/23 15:51	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/20/23 15:51	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/20/23 15:51	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/20/23 15:51	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/20/23 15:51	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/20/23 15:51	1
2-Hexanone	ND		6.0	2.0	ug/L			06/20/23 15:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/20/23 15:51	1
Acetone	ND		8.0	3.6	ug/L			06/20/23 15:51	1
Acrolein	ND		4.0	3.6	ug/L			06/20/23 15:51	1
Allyl chloride	ND		2.0	0.47	ug/L			06/20/23 15:51	1
Benzene	ND		0.50	0.14	ug/L			06/20/23 15:51	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/20/23 15:51	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/20/23 15:51	1
Bromoform	ND		0.50	0.28	ug/L			06/20/23 15:51	1
Bromomethane	ND		2.0	1.9	ug/L			06/20/23 15:51	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/20/23 15:51	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/20/23 15:51	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/20/23 15:51	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/20/23 15:51	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/20/23 15:51	1
Chloroethane	ND		0.50	0.38	ug/L			06/20/23 15:51	1
Chloroform	ND		0.50	0.17	ug/L			06/20/23 15:51	1
Chloromethane	ND		1.0	0.65	ug/L			06/20/23 15:51	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/20/23 15:51	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/20/23 15:51	1
Dibromomethane	ND		0.50	0.16	ug/L			06/20/23 15:51	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/20/23 15:51	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/20/23 15:51	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/20/23 15:51	1
Iodomethane	ND		25	8.7	ug/L			06/20/23 15:51	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/20/23 15:51	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/20/23 15:51	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/20/23 15:51	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/20/23 15:51	1

Client Sample ID: PZ-2

Date Collected: 06/19/23 08:52
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-7

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/20/23 15:51	1
o-Xylene	ND		0.50	0.18	ug/L			06/20/23 15:51	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/20/23 15:51	1
Propionitrile	ND		5.0	3.1	ug/L			06/20/23 15:51	1
Styrene	ND		0.50	0.27	ug/L			06/20/23 15:51	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/20/23 15:51	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/20/23 15:51	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/20/23 15:51	1
t-Butanol	ND		5.0	3.1	ug/L			06/20/23 15:51	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/20/23 15:51	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/20/23 15:51	1
Toluene	ND		0.50	0.14	ug/L			06/20/23 15:51	1
Trichloroethene	ND		0.50	0.15	ug/L			06/20/23 15:51	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/20/23 15:51	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/20/23 15:51	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/20/23 15:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Sulfur dioxide	*430*	*T J N*	*ug/L*		*1.59*	*7446-09-5*		*06/20/23 15:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 132*		*06/20/23 15:51*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 120*		*06/20/23 15:51*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*06/20/23 15:51*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/20/23 15:51*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 02:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/22/23 02:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 132*		*06/22/23 02:16*	*1*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*06/22/23 02:16*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*06/22/23 02:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/22/23 02:16*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.37	0.25	ug/L		06/22/23 08:48	06/24/23 01:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*21 - 120*	*06/22/23 08:48*	*06/24/23 01:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*100*		*58 - 135*	*06/22/23 08:48*	*06/24/23 01:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.082	mg/L			06/20/23 09:06	2

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: PZ-2
Date Collected: 06/19/23 08:52
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-7
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.039	mg/L			06/20/23 09:06	2
Chloride	**13**		2.0	0.72	mg/L			06/20/23 09:06	2
Fluoride	**0.66**		0.20	0.092	mg/L			06/20/23 09:06	2

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2500**		40	9.5	mg/L			06/20/23 10:40	40

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**1.4**		0.50	0.0039	mg/L		06/20/23 06:34	06/20/23 15:30	1
Calcium	**49**		2.0	0.028	mg/L		06/20/23 06:34	06/20/23 15:30	1
Iron	**0.048**	**J**	0.50	0.013	mg/L		06/20/23 06:34	06/20/23 15:30	1
Magnesium	**42**		0.50	0.048	mg/L		06/20/23 06:34	06/20/23 15:30	1
Manganese	**0.071**		0.050	0.0013	mg/L		06/20/23 06:34	06/20/23 15:30	1
Potassium	**3.5**		2.0	0.58	mg/L		06/20/23 06:34	06/20/23 15:30	1
Sodium	**1200**		4.0	0.62	mg/L		06/20/23 06:34	06/20/23 16:25	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**3.1**		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:04	1
Chemical Oxygen Demand (EPA 410.4)	ND		100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**340**		5.0	2.2	mg/L			06/20/23 13:48	1
Bicarbonate (as CaCO3) (SM 2320B)	**340**		5.0	2.2	mg/L			06/20/23 13:48	1
Total Dissolved Solids (SM 2540C)	**3900**		50	44	mg/L			06/21/23 16:13	1
Carbon dioxide (SM 4500 CO2 D)	**300**	**B**	1.0	0.59	mg/L			06/20/23 13:48	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.017	mg/L			06/20/23 16:59	1
Carbon, Total Organic (SM 5310D)	**1.9**		0.50	0.26	mg/L			06/20/23 23:32	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: DUPLICATE

Date Collected: 06/19/23 00:00
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-8

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/20/23 16:16	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/20/23 16:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/20/23 16:16	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/20/23 16:16	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/20/23 16:16	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/20/23 16:16	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/20/23 16:16	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/20/23 16:16	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/20/23 16:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/20/23 16:16	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/20/23 16:16	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/20/23 16:16	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/20/23 16:16	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/20/23 16:16	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/20/23 16:16	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/20/23 16:16	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/20/23 16:16	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/20/23 16:16	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/20/23 16:16	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/20/23 16:16	1
2-Hexanone	ND		6.0	2.0	ug/L			06/20/23 16:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/20/23 16:16	1
Acetone	ND		8.0	3.6	ug/L			06/20/23 16:16	1
Acrolein	ND		4.0	3.6	ug/L			06/20/23 16:16	1
Allyl chloride	ND		2.0	0.47	ug/L			06/20/23 16:16	1
Benzene	ND		0.50	0.14	ug/L			06/20/23 16:16	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/20/23 16:16	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/20/23 16:16	1
Bromoform	ND		0.50	0.28	ug/L			06/20/23 16:16	1
Bromomethane	ND		2.0	1.9	ug/L			06/20/23 16:16	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/20/23 16:16	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/20/23 16:16	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/20/23 16:16	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/20/23 16:16	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/20/23 16:16	1
Chloroethane	ND		0.50	0.38	ug/L			06/20/23 16:16	1
Chloroform	ND		0.50	0.17	ug/L			06/20/23 16:16	1
Chloromethane	ND		1.0	0.65	ug/L			06/20/23 16:16	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/20/23 16:16	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/20/23 16:16	1
Dibromomethane	ND		0.50	0.16	ug/L			06/20/23 16:16	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/20/23 16:16	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/20/23 16:16	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/20/23 16:16	1
Iodomethane	ND		25	8.7	ug/L			06/20/23 16:16	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/20/23 16:16	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/20/23 16:16	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/20/23 16:16	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/20/23 16:16	1

Client Sample ID: DUPLICATE
Lab Sample ID: 570-142231-8

Date Collected: 06/19/23 00:00
Matrix: Water
Date Received: 06/19/23 17:07

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/20/23 16:16	1
o-Xylene	ND		0.50	0.18	ug/L			06/20/23 16:16	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/20/23 16:16	1
Propionitrile	ND		5.0	3.1	ug/L			06/20/23 16:16	1
Styrene	ND		0.50	0.27	ug/L			06/20/23 16:16	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/20/23 16:16	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/20/23 16:16	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/20/23 16:16	1
t-Butanol	ND		5.0	3.1	ug/L			06/20/23 16:16	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/20/23 16:16	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/20/23 16:16	1
Toluene	ND		0.50	0.14	ug/L			06/20/23 16:16	1
Trichloroethene	ND		0.50	0.15	ug/L			06/20/23 16:16	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/20/23 16:16	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/20/23 16:16	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/20/23 16:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Sulfur dioxide	*540*	*T J N*	*ug/L*		*1.59*	*7446-09-5*		*06/20/23 16:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 132*		*06/20/23 16:16*	*1*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*06/20/23 16:16*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/20/23 16:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/20/23 16:16*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 02:41	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/22/23 02:41*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*		*06/22/23 02:41*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*06/22/23 02:41*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/22/23 02:41*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/22/23 02:41*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.28	ug/L		06/22/23 08:48	06/24/23 01:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*35*		*21 - 120*	*06/22/23 08:48*	*06/24/23 01:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*99*		*58 - 135*	*06/22/23 08:48*	*06/24/23 01:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.26**		0.10	0.041	mg/L			06/20/23 09:23	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: DUPLICATE

Date Collected: 06/19/23 00:00
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-8

Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.53		0.10	0.020	mg/L			06/20/23 09:23	1
Chloride	19		1.0	0.36	mg/L			06/20/23 09:23	1
Fluoride	1.2		0.10	0.046	mg/L			06/20/23 09:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2400		100	24	mg/L			06/20/23 14:19	100

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4		0.50	0.0039	mg/L		06/20/23 06:34	06/20/23 16:06	1
Calcium	410		2.0	0.028	mg/L		06/20/23 06:34	06/20/23 16:06	1
Iron	1.0		0.50	0.013	mg/L		06/20/23 06:34	06/20/23 16:06	1
Magnesium	240		0.50	0.048	mg/L		06/20/23 06:34	06/20/23 16:06	1
Manganese	2.0		0.050	0.0013	mg/L		06/20/23 06:34	06/20/23 16:06	1
Potassium	14		2.0	0.58	mg/L		06/20/23 06:34	06/20/23 16:06	1
Sodium	330		2.0	0.31	mg/L		06/20/23 06:34	06/20/23 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	1.0		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:06	1
Chemical Oxygen Demand (EPA 410.4)	38	J	100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	99		5.0	2.2	mg/L			06/20/23 13:48	1
Bicarbonate (as CaCO3) (SM 2320B)	99		5.0	2.2	mg/L			06/20/23 13:48	1
Total Dissolved Solids (SM 2540C)	3700		50	44	mg/L			06/21/23 16:13	1
Carbon dioxide (SM 4500 CO2 D)	93	B	1.0	0.59	mg/L			06/20/23 13:48	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.017	mg/L			06/22/23 13:16	1
Carbon, Total Organic (SM 5310D)	11		0.50	0.26	mg/L			06/20/23 23:51	1

Client: Geo-Logic Associates
Job ID: 570-142231-1
Project/Site: Republic Sunshine Canyon 2023

Client Sample ID: FIELD BLANK
Lab Sample ID: 570-142231-9
Date Collected: 06/19/23 00:00
Matrix: Water
Date Received: 06/19/23 17:07

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/20/23 12:55	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/20/23 12:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/20/23 12:55	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/20/23 12:55	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/20/23 12:55	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/20/23 12:55	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/20/23 12:55	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/20/23 12:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/20/23 12:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/20/23 12:55	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/20/23 12:55	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/20/23 12:55	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/20/23 12:55	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/20/23 12:55	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/20/23 12:55	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/20/23 12:55	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/20/23 12:55	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/20/23 12:55	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/20/23 12:55	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/20/23 12:55	1
2-Hexanone	ND		6.0	2.0	ug/L			06/20/23 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/20/23 12:55	1
Acetone	ND		8.0	3.6	ug/L			06/20/23 12:55	1
Acrolein	ND		4.0	3.6	ug/L			06/20/23 12:55	1
Allyl chloride	ND		2.0	0.47	ug/L			06/20/23 12:55	1
Benzene	ND		0.50	0.14	ug/L			06/20/23 12:55	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/20/23 12:55	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/20/23 12:55	1
Bromoform	ND		0.50	0.28	ug/L			06/20/23 12:55	1
Bromomethane	ND		2.0	1.9	ug/L			06/20/23 12:55	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/20/23 12:55	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/20/23 12:55	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/20/23 12:55	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/20/23 12:55	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/20/23 12:55	1
Chloroethane	ND		0.50	0.38	ug/L			06/20/23 12:55	1
Chloroform	ND		0.50	0.17	ug/L			06/20/23 12:55	1
Chloromethane	ND		1.0	0.65	ug/L			06/20/23 12:55	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/20/23 12:55	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/20/23 12:55	1
Dibromomethane	ND		0.50	0.16	ug/L			06/20/23 12:55	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/20/23 12:55	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/20/23 12:55	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/20/23 12:55	1
Iodomethane	ND		25	8.7	ug/L			06/20/23 12:55	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/20/23 12:55	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/20/23 12:55	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/20/23 12:55	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/20/23 12:55	1

Client Sample ID: FIELD BLANK
Lab Sample ID: 570-142231-9
Date Collected: 06/19/23 00:00
Matrix: Water
Date Received: 06/19/23 17:07

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/20/23 12:55	1
o-Xylene	ND		0.50	0.18	ug/L			06/20/23 12:55	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/20/23 12:55	1
Propionitrile	ND		5.0	3.1	ug/L			06/20/23 12:55	1
Styrene	ND		0.50	0.27	ug/L			06/20/23 12:55	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/20/23 12:55	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/20/23 12:55	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/20/23 12:55	1
t-Butanol	ND		5.0	3.1	ug/L			06/20/23 12:55	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/20/23 12:55	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/20/23 12:55	1
Toluene	ND		0.50	0.14	ug/L			06/20/23 12:55	1
Trichloroethene	ND		0.50	0.15	ug/L			06/20/23 12:55	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/20/23 12:55	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/20/23 12:55	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/20/23 12:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/20/23 12:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 132*		*06/20/23 12:55*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*06/20/23 12:55*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/20/23 12:55*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/20/23 12:55*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/21/23 23:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/21/23 23:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 132*		*06/21/23 23:22*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*06/21/23 23:22*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/21/23 23:22*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/21/23 23:22*	*1*

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: TRIP BLANK

Date Collected: 06/19/23 00:00
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-10

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/20/23 12:29	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/20/23 12:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/20/23 12:29	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/20/23 12:29	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/20/23 12:29	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/20/23 12:29	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/20/23 12:29	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/20/23 12:29	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/20/23 12:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/20/23 12:29	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/20/23 12:29	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/20/23 12:29	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/20/23 12:29	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/20/23 12:29	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/20/23 12:29	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/20/23 12:29	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/20/23 12:29	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/20/23 12:29	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/20/23 12:29	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/20/23 12:29	1
2-Hexanone	ND		6.0	2.0	ug/L			06/20/23 12:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/20/23 12:29	1
Acetone	ND		8.0	3.6	ug/L			06/20/23 12:29	1
Acrolein	ND		4.0	3.6	ug/L			06/20/23 12:29	1
Allyl chloride	ND		2.0	0.47	ug/L			06/20/23 12:29	1
Benzene	ND		0.50	0.14	ug/L			06/20/23 12:29	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/20/23 12:29	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/20/23 12:29	1
Bromoform	ND		0.50	0.28	ug/L			06/20/23 12:29	1
Bromomethane	ND		2.0	1.9	ug/L			06/20/23 12:29	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/20/23 12:29	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/20/23 12:29	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/20/23 12:29	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/20/23 12:29	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/20/23 12:29	1
Chloroethane	ND		0.50	0.38	ug/L			06/20/23 12:29	1
Chloroform	ND		0.50	0.17	ug/L			06/20/23 12:29	1
Chloromethane	ND		1.0	0.65	ug/L			06/20/23 12:29	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/20/23 12:29	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/20/23 12:29	1
Dibromomethane	ND		0.50	0.16	ug/L			06/20/23 12:29	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/20/23 12:29	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/20/23 12:29	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/20/23 12:29	1
Iodomethane	ND		25	8.7	ug/L			06/20/23 12:29	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/20/23 12:29	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/20/23 12:29	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/20/23 12:29	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/20/23 12:29	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 570-142231-10
Date Collected: 06/19/23 00:00
Matrix: Water
Date Received: 06/19/23 17:07

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/20/23 12:29	1
o-Xylene	ND		0.50	0.18	ug/L			06/20/23 12:29	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/20/23 12:29	1
Propionitrile	ND		5.0	3.1	ug/L			06/20/23 12:29	1
Styrene	ND		0.50	0.27	ug/L			06/20/23 12:29	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/20/23 12:29	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/20/23 12:29	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/20/23 12:29	1
t-Butanol	ND		5.0	3.1	ug/L			06/20/23 12:29	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/20/23 12:29	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/20/23 12:29	1
Toluene	ND		0.50	0.14	ug/L			06/20/23 12:29	1
Trichloroethene	ND		0.50	0.15	ug/L			06/20/23 12:29	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/20/23 12:29	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/20/23 12:29	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/20/23 12:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/20/23 12:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 132*		*06/20/23 12:29*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*06/20/23 12:29*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*06/20/23 12:29*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/20/23 12:29*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/21/23 22:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/21/23 22:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 132*		*06/21/23 22:57*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*06/21/23 22:57*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/21/23 22:57*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/21/23 22:57*	*1*

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-132)	(76-120)	(80-120)	(80-120)
570-142231-1	CM-9R3	103	90	103	99
570-142231-1 - RA	CM-9R3	101	91	101	97
570-142231-2	CM-10R	103	88	104	100
570-142231-2 - RA	CM-10R	100	91	102	97
570-142231-3	CM-11R	104	91	104	101
570-142231-3 - RA	CM-11R	102	91	104	99
570-142231-4	MW-6	103	89	107	101
570-142231-4 - RA	MW-6	103	92	105	98
570-142231-5	MW-14	106	92	106	101
570-142231-5 - RA	MW-14	104	91	106	98
570-142231-6	DW-2	103	88	105	101
570-142231-6 - RA	DW-2	102	91	105	99
570-142231-7	PZ-2	105	93	107	103
570-142231-7 - RA	PZ-2	105	89	104	99
570-142231-8	DUPLICATE	104	89	105	99
570-142231-8 - RA	DUPLICATE	103	91	105	98
570-142231-9	FIELD BLANK	100	90	103	100
570-142231-9 - RA	FIELD BLANK	102	91	105	99
570-142231-10	TRIP BLANK	102	90	104	99
570-142231-10 - RA	TRIP BLANK	99	91	103	96
LCS 570-338774/4	Lab Control Sample	103	97	102	100
LCS 570-339374/3	Lab Control Sample	95	96	99	99
LCSD 570-338774/5	Lab Control Sample Dup	97	96	99	100
LCSD 570-339374/4	Lab Control Sample Dup	94	98	99	98
MB 570-338774/7	Method Blank	100	89	104	99
MB 570-339374/6	Method Blank	100	93	104	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		NBZ
Lab Sample ID	Client Sample ID	(58-135)
570-142231-1	CM-9R3	93
570-142231-2	CM-10R	110
570-142231-3	CM-11R	112
570-142231-4	MW-6	115
570-142231-5	MW-14	103
570-142231-6	DW-2	115
570-142231-7	PZ-2	100
570-142231-8	DUPLICATE	99
LCS 570-339562/2-A	Lab Control Sample	104
LCSD 570-339562/3-A	Lab Control Sample Dup	96
MB 570-339562/1-A	Method Blank	93

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

Isotope Dilution Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DXE (21-120)						
570-142231-1	CM-9R3	33						
570-142231-2	CM-10R	29						
570-142231-3	CM-11R	27						
570-142231-4	MW-6	30						
570-142231-5	MW-14	29						
570-142231-6	DW-2	42						
570-142231-7	PZ-2	33						
570-142231-8	DUPLICATE	35						
LCS 570-339562/2-A	Lab Control Sample	48						
LCSD 570-339562/3-A	Lab Control Sample Dup	45						
MB 570-339562/1-A	Method Blank	50						

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-338774/7
Matrix: Water
Analysis Batch: 338774

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/20/23 12:04	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/20/23 12:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/20/23 12:04	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/20/23 12:04	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/20/23 12:04	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/20/23 12:04	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/20/23 12:04	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/20/23 12:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/20/23 12:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/20/23 12:04	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/20/23 12:04	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/20/23 12:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/20/23 12:04	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/20/23 12:04	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/20/23 12:04	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/20/23 12:04	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/20/23 12:04	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/20/23 12:04	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/20/23 12:04	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/20/23 12:04	1
2-Hexanone	ND		6.0	2.0	ug/L			06/20/23 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/20/23 12:04	1
Acetone	ND		8.0	3.6	ug/L			06/20/23 12:04	1
Acrolein	ND		4.0	3.6	ug/L			06/20/23 12:04	1
Allyl chloride	ND		2.0	0.47	ug/L			06/20/23 12:04	1
Benzene	ND		0.50	0.14	ug/L			06/20/23 12:04	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/20/23 12:04	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/20/23 12:04	1
Bromoform	ND		0.50	0.28	ug/L			06/20/23 12:04	1
Bromomethane	ND		2.0	1.9	ug/L			06/20/23 12:04	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/20/23 12:04	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/20/23 12:04	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/20/23 12:04	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/20/23 12:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/20/23 12:04	1
Chloroethane	ND		0.50	0.38	ug/L			06/20/23 12:04	1
Chloroform	ND		0.50	0.17	ug/L			06/20/23 12:04	1
Chloromethane	ND		1.0	0.65	ug/L			06/20/23 12:04	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/20/23 12:04	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/20/23 12:04	1
Dibromomethane	ND		0.50	0.16	ug/L			06/20/23 12:04	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/20/23 12:04	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/20/23 12:04	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/20/23 12:04	1
Iodomethane	ND		25	8.7	ug/L			06/20/23 12:04	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/20/23 12:04	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/20/23 12:04	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/20/23 12:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-338774/7
Matrix: Water
Analysis Batch: 338774

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/20/23 12:04	1
Naphthalene	ND		1.0	0.55	ug/L			06/20/23 12:04	1
o-Xylene	ND		0.50	0.18	ug/L			06/20/23 12:04	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/20/23 12:04	1
Propionitrile	ND		5.0	3.1	ug/L			06/20/23 12:04	1
Styrene	ND		0.50	0.27	ug/L			06/20/23 12:04	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/20/23 12:04	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/20/23 12:04	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/20/23 12:04	1
t-Butanol	ND		5.0	3.1	ug/L			06/20/23 12:04	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/20/23 12:04	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/20/23 12:04	1
Toluene	ND		0.50	0.14	ug/L			06/20/23 12:04	1
Trichloroethene	ND		0.50	0.15	ug/L			06/20/23 12:04	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/20/23 12:04	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/20/23 12:04	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/20/23 12:04	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/20/23 12:04*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 132*		*06/20/23 12:04*	*1*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*06/20/23 12:04*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*06/20/23 12:04*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/20/23 12:04*	*1*

Lab Sample ID: LCS 570-338774/4
Matrix: Water
Analysis Batch: 338774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	11.2		ug/L		112	80 - 125
1,1,1-Trichloroethane	10.0	9.76		ug/L		98	75 - 121
1,1,2,2-Tetrachloroethane	10.0	9.94		ug/L		99	80 - 120
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	80 - 121
1,1-Dichloroethane	10.0	10.2		ug/L		102	80 - 120
1,1-Dichloroethene	10.0	9.46		ug/L		95	80 - 126
1,1-Dichloropropene	10.0	8.99		ug/L		90	72 - 122
1,2,3-Trichloropropane	10.0	8.77		ug/L		88	75 - 127
1,2,4-Trichlorobenzene	10.0	10.3		ug/L		103	80 - 124
1,2-Dibromo-3-Chloropropane	10.0	8.24		ug/L		82	63 - 123
1,2-Dibromoethane (EDB)	10.0	9.25		ug/L		93	80 - 125
1,2-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	76 - 130
1,2-Dichloropropane	10.0	9.94		ug/L		99	74 - 124
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120
1,3-Dichloropropane	10.0	10.4		ug/L		104	80 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-338774/4
Matrix: Water
Analysis Batch: 338774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	10.0	9.82		ug/L		98	80 - 120
2,2-Dichloropropane	10.0	9.80		ug/L		98	79 - 131
2-Butanone (MEK)	10.0	9.29		ug/L		93	48 - 145
2-Chloroethyl vinyl ether	10.0	5.45		ug/L		55	20 - 120
2-Hexanone	10.0	7.59		ug/L		76	50 - 149
4-Methyl-2-pentanone (MIBK)	10.0	7.60		ug/L		76	63 - 120
Acetone	10.0	7.89	J	ug/L		79	45 - 139
Acrolein	20.0	16.8		ug/L		84	71 - 180
Benzene	10.0	10.1		ug/L		101	80 - 120
Bromochloromethane	10.0	10.1		ug/L		101	80 - 120
Bromodichloromethane	10.0	10.4		ug/L		104	73 - 131
Bromoform	10.0	9.38		ug/L		94	76 - 124
Bromomethane	10.0	9.88		ug/L		99	26 - 180
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	80 - 120
cis-1,3-Dichloropropene	10.0	8.98		ug/L		90	76 - 123
Carbon disulfide	10.0	9.03		ug/L		90	75 - 123
Carbon tetrachloride	10.0	9.63		ug/L		96	61 - 139
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120
Chloroethane	10.0	10.9		ug/L		109	54 - 150
Chloroform	10.0	9.95		ug/L		100	80 - 120
Chloromethane	10.0	11.4		ug/L		114	28 - 151
Dibromochloromethane	10.0	10.2		ug/L		102	74 - 136
Dibromomethane	10.0	9.98		ug/L		100	80 - 122
Dichlorodifluoromethane	10.0	9.14		ug/L		91	27 - 154
Ethylbenzene	10.0	10.3		ug/L		103	80 - 126
Methylene Chloride	10.0	9.32		ug/L		93	80 - 120
Methyl tert-butyl ether	10.0	8.93		ug/L		89	69 - 128
Naphthalene	10.0	10.4		ug/L		104	70 - 130
o-Xylene	10.0	10.1		ug/L		101	80 - 124
m,p-Xylene	20.0	20.8		ug/L		104	80 - 123
Styrene	10.0	10.4		ug/L		104	80 - 121
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	79 - 120
trans-1,3-Dichloropropene	10.0	9.47		ug/L		95	80 - 126
t-Butanol	50.0	57.1		ug/L		114	68 - 133
Tetrachloroethene	10.0	9.95		ug/L		100	80 - 125
Toluene	10.0	9.90		ug/L		99	80 - 120
Trichloroethene	10.0	9.54		ug/L		95	77 - 124
Trichlorofluoromethane	10.0	10.0		ug/L		100	41 - 163
Vinyl acetate	10.0	8.16		ug/L		82	61 - 126
Vinyl chloride	10.0	10.1		ug/L		101	50 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*
4-Bromofluorobenzene (Surr)	*97*		*76 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-338774/5
Matrix: Water
Analysis Batch: 338774

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			10.0	10.7		ug/L		107	80 - 125	4	20
1,1,1-Trichloroethane			10.0	9.40		ug/L		94	75 - 121	4	20
1,1,2,2-Tetrachloroethane			10.0	9.18		ug/L		92	80 - 120	8	20
1,1,2-Trichloroethane			10.0	9.92		ug/L		99	80 - 121	4	20
1,1-Dichloroethane			10.0	10.2		ug/L		102	80 - 120	0	20
1,1-Dichloroethene			10.0	9.24		ug/L		92	80 - 126	2	21
1,1-Dichloropropene			10.0	8.78		ug/L		88	72 - 122	2	20
1,2,3-Trichloropropane			10.0	9.14		ug/L		91	75 - 127	4	20
1,2,4-Trichlorobenzene			10.0	9.44		ug/L		94	80 - 124	8	20
1,2-Dibromo-3-Chloropropane			10.0	7.61		ug/L		76	63 - 123	8	20
1,2-Dibromoethane (EDB)			10.0	8.82		ug/L		88	80 - 125	5	20
1,2-Dichlorobenzene			10.0	9.87		ug/L		99	80 - 120	2	20
1,2-Dichloroethane			10.0	9.40		ug/L		94	76 - 130	7	20
1,2-Dichloropropane			10.0	9.59		ug/L		96	74 - 124	4	20
1,3-Dichlorobenzene			10.0	10.1		ug/L		101	80 - 120	2	20
1,3-Dichloropropane			10.0	9.96		ug/L		100	80 - 121	4	20
1,4-Dichlorobenzene			10.0	9.71		ug/L		97	80 - 120	1	20
2,2-Dichloropropane			10.0	8.76		ug/L		88	79 - 131	11	20
2-Butanone (MEK)			10.0	8.88		ug/L		89	48 - 145	5	30
2-Chloroethyl vinyl ether			10.0	5.44		ug/L		54	20 - 120	0	30
2-Hexanone			10.0	7.77		ug/L		78	50 - 149	2	29
4-Methyl-2-pentanone (MIBK)			10.0	6.79		ug/L		68	63 - 120	11	20
Acetone			10.0	7.53	J	ug/L		75	45 - 139	5	30
Acrolein			20.0	15.8		ug/L		79	71 - 180	6	26
Benzene			10.0	9.87		ug/L		99	80 - 120	2	20
Bromochloromethane			10.0	9.86		ug/L		99	80 - 120	2	20
Bromodichloromethane			10.0	9.74		ug/L		97	73 - 131	7	20
Bromoform			10.0	8.85		ug/L		89	76 - 124	6	20
Bromomethane			10.0	9.80		ug/L		98	26 - 180	1	20
cis-1,2-Dichloroethene			10.0	9.58		ug/L		96	80 - 120	8	20
cis-1,3-Dichloropropene			10.0	8.45		ug/L		85	76 - 123	6	20
Carbon disulfide			10.0	8.87		ug/L		89	75 - 123	2	20
Carbon tetrachloride			10.0	9.30		ug/L		93	61 - 139	4	20
Chlorobenzene			10.0	10.2		ug/L		102	80 - 120	1	20
Chloroethane			10.0	10.8		ug/L		108	54 - 150	1	25
Chloroform			10.0	9.55		ug/L		95	80 - 120	4	20
Chloromethane			10.0	11.1		ug/L		111	28 - 151	3	20
Dibromochloromethane			10.0	9.52		ug/L		95	74 - 136	7	20
Dibromomethane			10.0	9.32		ug/L		93	80 - 122	7	20
Dichlorodifluoromethane			10.0	9.02		ug/L		90	27 - 154	1	21
Ethylbenzene			10.0	10.2		ug/L		102	80 - 126	1	20
Methylene Chloride			10.0	9.01		ug/L		90	80 - 120	3	20
Methyl tert-butyl ether			10.0	8.16		ug/L		82	69 - 128	9	20
Naphthalene			10.0	9.48		ug/L		95	70 - 130	9	20
o-Xylene			10.0	10.0		ug/L		100	80 - 124	1	20
m,p-Xylene			20.0	20.8		ug/L		104	80 - 123	0	20
Styrene			10.0	10.0		ug/L		100	80 - 121	3	20
trans-1,2-Dichloroethene			10.0	9.82		ug/L		98	79 - 120	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-338774/5
Matrix: Water
Analysis Batch: 338774

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			10.0	9.06		ug/L		91	80 - 126	4	20
t-Butanol			50.0	60.4		ug/L		121	68 - 133	5	21
Tetrachloroethene			10.0	9.87		ug/L		99	80 - 125	1	20
Toluene			10.0	9.72		ug/L		97	80 - 120	2	20
Trichloroethene			10.0	9.41		ug/L		94	77 - 124	1	20
Trichlorofluoromethane			10.0	9.90		ug/L		99	41 - 163	1	21
Vinyl acetate			10.0	7.85		ug/L		78	61 - 126	4	24
Vinyl chloride			10.0	9.97		ug/L		100	50 - 160	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 132*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 570-339374/6
Matrix: Water
Analysis Batch: 339374

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/21/23 22:32	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/21/23 22:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/21/23 22:32	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/21/23 22:32	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/21/23 22:32	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/21/23 22:32	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/21/23 22:32	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/21/23 22:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/21/23 22:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/21/23 22:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/21/23 22:32	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/21/23 22:32	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/21/23 22:32	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/21/23 22:32	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/21/23 22:32	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/21/23 22:32	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/21/23 22:32	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/21/23 22:32	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/21/23 22:32	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/21/23 22:32	1
2-Hexanone	ND		6.0	2.0	ug/L			06/21/23 22:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/21/23 22:32	1
Acetone	ND		8.0	3.6	ug/L			06/21/23 22:32	1
Acrolein	ND		4.0	3.6	ug/L			06/21/23 22:32	1
Allyl chloride	ND		2.0	0.47	ug/L			06/21/23 22:32	1
Benzene	ND		0.50	0.14	ug/L			06/21/23 22:32	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/21/23 22:32	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/21/23 22:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-339374/6
Matrix: Water
Analysis Batch: 339374

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		0.50	0.28	ug/L			06/21/23 22:32	1
Bromomethane	ND		2.0	1.9	ug/L			06/21/23 22:32	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/21/23 22:32	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/21/23 22:32	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/21/23 22:32	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/21/23 22:32	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/21/23 22:32	1
Chloroethane	ND		0.50	0.38	ug/L			06/21/23 22:32	1
Chloroform	ND		0.50	0.17	ug/L			06/21/23 22:32	1
Chloromethane	ND		1.0	0.65	ug/L			06/21/23 22:32	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/21/23 22:32	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/21/23 22:32	1
Dibromomethane	ND		0.50	0.16	ug/L			06/21/23 22:32	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/21/23 22:32	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/21/23 22:32	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/21/23 22:32	1
Iodomethane	ND		25	8.7	ug/L			06/21/23 22:32	1
Isobutyl alcohol	ND		50	35	ug/L			06/21/23 22:32	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/21/23 22:32	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/21/23 22:32	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/21/23 22:32	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/21/23 22:32	1
Naphthalene	ND		1.0	0.55	ug/L			06/21/23 22:32	1
o-Xylene	ND		0.50	0.18	ug/L			06/21/23 22:32	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/21/23 22:32	1
Propionitrile	ND		5.0	3.1	ug/L			06/21/23 22:32	1
Styrene	ND		0.50	0.27	ug/L			06/21/23 22:32	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/21/23 22:32	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/21/23 22:32	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/21/23 22:32	1
t-Butanol	ND		5.0	3.1	ug/L			06/21/23 22:32	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/21/23 22:32	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/21/23 22:32	1
Toluene	ND		0.50	0.14	ug/L			06/21/23 22:32	1
Trichloroethene	ND		0.50	0.15	ug/L			06/21/23 22:32	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/21/23 22:32	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/21/23 22:32	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/21/23 22:32	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/21/23 22:32*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 132*		*06/21/23 22:32*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 120*		*06/21/23 22:32*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*06/21/23 22:32*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/21/23 22:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-339374/3
Matrix: Water
Analysis Batch: 339374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	10.6		ug/L		106	80 - 125
1,1,1-Trichloroethane	10.0	10.0		ug/L		100	75 - 121
1,1,2,2-Tetrachloroethane	10.0	9.77		ug/L		98	80 - 120
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	80 - 121
1,1-Dichloroethane	10.0	9.53		ug/L		95	80 - 120
1,1-Dichloroethene	10.0	9.46		ug/L		95	80 - 126
1,1-Dichloropropene	10.0	9.14		ug/L		91	72 - 122
1,2,3-Trichloropropane	10.0	10.0		ug/L		100	75 - 127
1,2,4-Trichlorobenzene	10.0	9.42		ug/L		94	80 - 124
1,2-Dibromo-3-Chloropropane	10.0	8.14		ug/L		81	63 - 123
1,2-Dibromoethane (EDB)	10.0	10.3		ug/L		103	80 - 125
1,2-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120
1,2-Dichloroethane	10.0	10.4		ug/L		104	76 - 130
1,2-Dichloropropane	10.0	9.33		ug/L		93	74 - 124
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120
1,3-Dichloropropane	10.0	10.5		ug/L		105	80 - 121
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	80 - 120
2,2-Dichloropropane	10.0	9.42		ug/L		94	79 - 131
2-Butanone (MEK)	10.0	8.96		ug/L		90	48 - 145
2-Chloroethyl vinyl ether	10.0	8.61		ug/L		86	20 - 120
2-Hexanone	10.0	8.07		ug/L		81	50 - 149
4-Methyl-2-pentanone (MIBK)	10.0	7.81		ug/L		78	63 - 120
Acetone	10.0	7.72	J	ug/L		77	45 - 139
Acrolein	20.0	14.7		ug/L		74	71 - 180
Benzene	10.0	9.98		ug/L		100	80 - 120
Bromochloromethane	10.0	10.7		ug/L		107	80 - 120
Bromodichloromethane	10.0	10.5		ug/L		105	73 - 131
Bromoform	10.0	9.79		ug/L		98	76 - 124
Bromomethane	10.0	11.7		ug/L		117	26 - 180
cis-1,2-Dichloroethene	10.0	9.67		ug/L		97	80 - 120
cis-1,3-Dichloropropene	10.0	8.72		ug/L		87	76 - 123
Carbon disulfide	10.0	10.1		ug/L		101	75 - 123
Carbon tetrachloride	10.0	9.50		ug/L		95	61 - 139
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120
Chloroethane	10.0	8.99		ug/L		90	54 - 150
Chloroform	10.0	9.68		ug/L		97	80 - 120
Chloromethane	10.0	10.7		ug/L		107	28 - 151
Dibromochloromethane	10.0	10.6		ug/L		106	74 - 136
Dibromomethane	10.0	10.4		ug/L		104	80 - 122
Dichlorodifluoromethane	10.0	8.55		ug/L		86	27 - 154
Ethylbenzene	10.0	10.3		ug/L		103	80 - 126
Methylene Chloride	10.0	10.1		ug/L		101	80 - 120
Methyl tert-butyl ether	10.0	8.84		ug/L		88	69 - 128
Naphthalene	10.0	9.03		ug/L		90	70 - 130
o-Xylene	10.0	10.1		ug/L		101	80 - 124
m,p-Xylene	20.0	20.8		ug/L		104	80 - 123
Styrene	10.0	10.6		ug/L		106	80 - 121
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	79 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-339374/3
Matrix: Water
Analysis Batch: 339374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	10.0	9.52		ug/L		95	80 - 126
t-Butanol	50.0	49.7		ug/L		99	68 - 133
Tetrachloroethene	10.0	11.5		ug/L		115	80 - 125
Toluene	10.0	10.4		ug/L		104	80 - 120
Trichloroethene	10.0	10.1		ug/L		101	77 - 124
Trichlorofluoromethane	10.0	9.14		ug/L		91	41 - 163
Vinyl acetate	10.0	8.90		ug/L		89	61 - 126
Vinyl chloride	10.0	9.41		ug/L		94	50 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 132*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 570-339374/4
Matrix: Water
Analysis Batch: 339374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.6		ug/L		106	80 - 125	0	20
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	75 - 121	2	20
1,1,2,2-Tetrachloroethane	10.0	10.2		ug/L		102	80 - 120	4	20
1,1,2-Trichloroethane	10.0	11.0		ug/L		110	80 - 121	6	20
1,1-Dichloroethane	10.0	9.73		ug/L		97	80 - 120	2	20
1,1-Dichloroethene	10.0	9.57		ug/L		96	80 - 126	1	21
1,1-Dichloropropene	10.0	9.46		ug/L		95	72 - 122	3	20
1,2,3-Trichloropropane	10.0	10.3		ug/L		103	75 - 127	3	20
1,2,4-Trichlorobenzene	10.0	9.71		ug/L		97	80 - 124	3	20
1,2-Dibromo-3-Chloropropane	10.0	8.53		ug/L		85	63 - 123	5	20
1,2-Dibromoethane (EDB)	10.0	10.9		ug/L		109	80 - 125	5	20
1,2-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120	4	20
1,2-Dichloroethane	10.0	10.5		ug/L		105	76 - 130	1	20
1,2-Dichloropropane	10.0	9.54		ug/L		95	74 - 124	2	20
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120	2	20
1,3-Dichloropropane	10.0	10.7		ug/L		107	80 - 121	1	20
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120	2	20
2,2-Dichloropropane	10.0	9.51		ug/L		95	79 - 131	1	20
2-Butanone (MEK)	10.0	8.75		ug/L		87	48 - 145	2	30
2-Chloroethyl vinyl ether	10.0	9.42		ug/L		94	20 - 120	9	30
2-Hexanone	10.0	8.43		ug/L		84	50 - 149	4	29
4-Methyl-2-pentanone (MIBK)	10.0	8.52		ug/L		85	63 - 120	9	20
Acetone	10.0	8.32		ug/L		83	45 - 139	7	30
Acrolein	20.0	15.9		ug/L		80	71 - 180	8	26
Benzene	10.0	10.3		ug/L		103	80 - 120	3	20
Bromochloromethane	10.0	11.0		ug/L		110	80 - 120	3	20
Bromodichloromethane	10.0	10.7		ug/L		107	73 - 131	3	20
Bromoform	10.0	10.4		ug/L		104	76 - 124	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-339374/4
Matrix: Water
Analysis Batch: 339374

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane			10.0	11.7		ug/L		117	26 - 180	0	20
cis-1,2-Dichloroethene			10.0	9.82		ug/L		98	80 - 120	1	20
cis-1,3-Dichloropropene			10.0	8.97		ug/L		90	76 - 123	3	20
Carbon disulfide			10.0	10.7		ug/L		107	75 - 123	6	20
Carbon tetrachloride			10.0	9.75		ug/L		98	61 - 139	3	20
Chlorobenzene			10.0	10.8		ug/L		108	80 - 120	4	20
Chloroethane			10.0	9.90		ug/L		99	54 - 150	10	25
Chloroform			10.0	9.77		ug/L		98	80 - 120	1	20
Chloromethane			10.0	10.9		ug/L		109	28 - 151	2	20
Dibromochloromethane			10.0	10.9		ug/L		109	74 - 136	3	20
Dibromomethane			10.0	10.7		ug/L		107	80 - 122	3	20
Dichlorodifluoromethane			10.0	8.72		ug/L		87	27 - 154	2	21
Ethylbenzene			10.0	10.7		ug/L		107	80 - 126	4	20
Methylene Chloride			10.0	10.4		ug/L		104	80 - 120	4	20
Methyl tert-butyl ether			10.0	9.02		ug/L		90	69 - 128	2	20
Naphthalene			10.0	9.37		ug/L		94	70 - 130	4	20
o-Xylene			10.0	10.7		ug/L		107	80 - 124	6	20
m,p-Xylene			20.0	21.6		ug/L		108	80 - 123	4	20
Styrene			10.0	11.1		ug/L		111	80 - 121	5	20
trans-1,2-Dichloroethene			10.0	10.2		ug/L		102	79 - 120	0	20
trans-1,3-Dichloropropene			10.0	9.92		ug/L		99	80 - 126	4	20
t-Butanol			50.0	56.0		ug/L		112	68 - 133	12	21
Tetrachloroethene			10.0	11.6		ug/L		116	80 - 125	1	20
Toluene			10.0	10.6		ug/L		106	80 - 120	2	20
Trichloroethene			10.0	10.5		ug/L		105	77 - 124	4	20
Trichlorofluoromethane			10.0	9.42		ug/L		94	41 - 163	3	21
Vinyl acetate			10.0	8.42		ug/L		84	61 - 126	6	24
Vinyl chloride			10.0	9.69		ug/L		97	50 - 160	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*64 - 132*
4-Bromofluorobenzene (Surr)	*98*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-339562/1-A
Matrix: Water
Analysis Batch: 339935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 339562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		06/22/23 08:48	06/23/23 20:38	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*50*		*21 - 120*	*06/22/23 08:48*	*06/23/23 20:38*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: MB 570-339562/1-A
Matrix: Water
Analysis Batch: 339935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 339562

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	93		58 - 135	06/22/23 08:48	06/23/23 20:38	1

Lab Sample ID: LCS 570-339562/2-A
Matrix: Water
Analysis Batch: 339935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 339562

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			20.0	22.6		ug/L		113	63 - 144		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8	48		21 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	104		58 - 135

Lab Sample ID: LCSD 570-339562/3-A
Matrix: Water
Analysis Batch: 339935

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 339562

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			20.0	20.7		ug/L		104	63 - 144	8	20

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	45		21 - 120

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	96		58 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-338716/5
Matrix: Water
Analysis Batch: 338716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10	0.020	mg/L			06/20/23 06:34	1

Lab Sample ID: LCS 570-338716/6
Matrix: Water
Analysis Batch: 338716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			5.00	4.82		mg/L		96	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 570-338716/7
Matrix: Water
Analysis Batch: 338716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N			5.00	4.84		mg/L		97	90 - 110	0	15

Lab Sample ID: 570-142231-7 MS
Matrix: Water
Analysis Batch: 338716

Client Sample ID: PZ-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	ND		5.00	4.88		mg/L		98	80 - 120

Lab Sample ID: 570-142231-7 MSD
Matrix: Water
Analysis Batch: 338716

Client Sample ID: PZ-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	4.71		mg/L		94	80 - 120	4	20

Lab Sample ID: MB 570-338717/5
Matrix: Water
Analysis Batch: 338717

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	0.041	mg/L			06/20/23 06:34	1
Chloride	ND		1.0	0.36	mg/L			06/20/23 06:34	1
Fluoride	ND		0.10	0.046	mg/L			06/20/23 06:34	1
Sulfate	ND		1.0	0.24	mg/L			06/20/23 06:34	1

Lab Sample ID: LCS 570-338717/6
Matrix: Water
Analysis Batch: 338717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide			5.00	4.90		mg/L		98	90 - 110
Chloride			50.0	46.8		mg/L		94	90 - 110
Fluoride			2.50	2.42		mg/L		97	90 - 110
Sulfate			50.0	48.5		mg/L		97	90 - 110

Lab Sample ID: LCSD 570-338717/7
Matrix: Water
Analysis Batch: 338717

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide			5.00	4.92		mg/L		98	90 - 110	0	15
Chloride			50.0	46.9		mg/L		94	90 - 110	0	15
Fluoride			2.50	2.44		mg/L		98	90 - 110	1	15
Sulfate			50.0	48.5		mg/L		97	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 570-142231-7 MS
Matrix: Water
Analysis Batch: 338717

Client Sample ID: PZ-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	ND		5.00	5.12		mg/L		102	80 - 120
Chloride	13		50.0	59.4		mg/L		93	80 - 120
Fluoride	0.66		2.50	3.00		mg/L		94	80 - 120

Lab Sample ID: 570-142231-7 MSD
Matrix: Water
Analysis Batch: 338717

Client Sample ID: PZ-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	ND		5.00	4.91		mg/L		98	80 - 120	4	20
Chloride	13		50.0	59.9		mg/L		94	80 - 120	1	20
Fluoride	0.66		2.50	3.00		mg/L		94	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 570-142231-7 MS
Matrix: Water
Analysis Batch: 338717

Client Sample ID: PZ-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate - DL	2500		50.0	2520	4	mg/L		21	80 - 120

Lab Sample ID: 570-142231-7 MSD
Matrix: Water
Analysis Batch: 338717

Client Sample ID: PZ-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate - DL	2500		50.0	2500	4	mg/L		-16	80 - 120	1	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-338729/1-A
Matrix: Water
Analysis Batch: 339052

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 338729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.50	0.0039	mg/L		06/20/23 06:34	06/20/23 15:08	1
Calcium	ND		2.0	0.028	mg/L		06/20/23 06:34	06/20/23 15:08	1
Iron	ND		0.50	0.013	mg/L		06/20/23 06:34	06/20/23 15:08	1
Magnesium	ND		0.50	0.048	mg/L		06/20/23 06:34	06/20/23 15:08	1
Manganese	ND		0.050	0.0013	mg/L		06/20/23 06:34	06/20/23 15:08	1
Potassium	ND		2.0	0.58	mg/L		06/20/23 06:34	06/20/23 15:08	1
Sodium	ND		2.0	0.31	mg/L		06/20/23 06:34	06/20/23 15:08	1

Lab Sample ID: LCS 570-338729/2-A
Matrix: Water
Analysis Batch: 339052

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 338729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.517		mg/L		103	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-338729/2-A
Matrix: Water
Analysis Batch: 339052

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 338729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.50	2.54		mg/L		102	80 - 120
Iron	0.500	0.509		mg/L		102	80 - 120
Magnesium	2.50	2.58		mg/L		103	80 - 120
Manganese	0.500	0.510		mg/L		102	80 - 120
Potassium	5.00	5.11		mg/L		102	80 - 120
Sodium	5.00	5.09		mg/L		102	80 - 120

Lab Sample ID: LCSD 570-338729/3-A
Matrix: Water
Analysis Batch: 339052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 338729

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.500	0.514		mg/L		103	80 - 120	0	20
Calcium	2.50	2.54		mg/L		102	80 - 120	0	20
Iron	0.500	0.538		mg/L		108	80 - 120	5	20
Magnesium	2.50	2.55		mg/L		102	80 - 120	1	20
Manganese	0.500	0.510		mg/L		102	80 - 120	0	20
Potassium	5.00	5.09		mg/L		102	80 - 120	0	20
Sodium	5.00	5.09		mg/L		102	80 - 120	0	20

Lab Sample ID: 570-141927-R-6-C MS
Matrix: Water
Analysis Batch: 339052

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 338729

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.27	J	0.500	0.783		mg/L		103	81 - 135
Calcium	180		2.50	177	4	mg/L		-28	77 - 113
Iron	32		0.500	32.6	4	mg/L		206	65 - 149
Magnesium	63		2.50	64.4	4	mg/L		61	56 - 140
Manganese	1.8		0.500	2.26		mg/L		90	86 - 116
Potassium	4.2		5.00	9.20		mg/L		100	83 - 131
Sodium	60		5.00	64.4	4	mg/L		80	73 - 127

Lab Sample ID: 570-141927-R-6-D MSD
Matrix: Water
Analysis Batch: 339052

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 338729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.27	J	0.500	0.784		mg/L		103	81 - 135	0	7
Calcium	180		2.50	181	4	mg/L		136	77 - 113	2	11
Iron	32		0.500	32.9	4	mg/L		268	65 - 149	1	21
Magnesium	63		2.50	65.5	4	mg/L		103	56 - 140	2	11
Manganese	1.8		0.500	2.28		mg/L		95	86 - 116	1	7
Potassium	4.2		5.00	9.25		mg/L		101	83 - 131	1	7
Sodium	60		5.00	65.5	4	mg/L		102	73 - 127	2	9

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 570-341760/5-A
Matrix: Water
Analysis Batch: 341767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 341760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 12:51	1

Lab Sample ID: LCS 570-341760/6-A
Matrix: Water
Analysis Batch: 341767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 341760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	0.500	0.500		mg/L		100	90 - 110

Lab Sample ID: LCSD 570-341760/7-A
Matrix: Water
Analysis Batch: 341767

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 341760

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	0.500	0.497		mg/L		99	90 - 110	1	20

Lab Sample ID: 570-142231-1 MS
Matrix: Water
Analysis Batch: 341767

Client Sample ID: CM-9R3
Prep Type: Total/NA
Prep Batch: 341760

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	1.0		0.500	1.54		mg/L		103	90 - 110

Lab Sample ID: 570-142231-1 MSD
Matrix: Water
Analysis Batch: 341767

Client Sample ID: CM-9R3
Prep Type: Total/NA
Prep Batch: 341760

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	1.0		0.500	1.55		mg/L		106	90 - 110	1	25

Method: 410.4 - COD

Lab Sample ID: MB 570-339377/3-A
Matrix: Water
Analysis Batch: 339418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 339377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1

Lab Sample ID: LCS 570-339377/4-A
Matrix: Water
Analysis Batch: 339418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 339377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	205	210		mg/L		103	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: LCSD 570-339377/5-A
Matrix: Water
Analysis Batch: 339418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 339377

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand			205	205		mg/L		100	90 - 110	2	20

Lab Sample ID: 570-142231-1 MS
Matrix: Water
Analysis Batch: 339418

Client Sample ID: CM-9R3
Prep Type: Total/NA
Prep Batch: 339377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	38	J	205	234		mg/L		96	90 - 110

Lab Sample ID: 570-142231-1 MSD
Matrix: Water
Analysis Batch: 339418

Client Sample ID: CM-9R3
Prep Type: Total/NA
Prep Batch: 339377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	38	J	205	243		mg/L		100	90 - 110	4	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 570-338914/1
Matrix: Water
Analysis Batch: 338914

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		2.5	1.1	mg/L			06/20/23 13:48	1
Bicarbonate (as CaCO3)	ND		2.5	1.1	mg/L			06/20/23 13:48	1

Lab Sample ID: LCS 570-338914/2
Matrix: Water
Analysis Batch: 338914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total (As CaCO3)			106	102		mg/L		96	78 - 110

Lab Sample ID: LCSD 570-338914/3
Matrix: Water
Analysis Batch: 338914

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity, Total (As CaCO3)			106	100		mg/L		94	78 - 110	2	10

Lab Sample ID: 570-140965-P-3 DU
Matrix: Water
Analysis Batch: 338914

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total (As CaCO3)	1100		1110		mg/L		0.05	25
Bicarbonate (as CaCO3)	1100		1110		mg/L		0.05	25

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 570-339048/1
Matrix: Water
Analysis Batch: 339048

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	8.7	mg/L			06/20/23 18:54	1

Lab Sample ID: LCS 570-339048/2
Matrix: Water
Analysis Batch: 339048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	986		mg/L		99	84 - 108

Lab Sample ID: LCSD 570-339048/3
Matrix: Water
Analysis Batch: 339048

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1020		mg/L		102	84 - 108	4	10

Lab Sample ID: 570-142231-1 DU
Matrix: Water
Analysis Batch: 339048

Client Sample ID: CM-9R3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3800		3940		mg/L		3	10

Lab Sample ID: MB 570-339359/1
Matrix: Water
Analysis Batch: 339359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	8.7	mg/L			06/21/23 16:13	1

Lab Sample ID: LCS 570-339359/2
Matrix: Water
Analysis Batch: 339359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	998		mg/L		100	84 - 108

Lab Sample ID: LCSD 570-339359/3
Matrix: Water
Analysis Batch: 339359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	980		mg/L		98	84 - 108	2	10

Lab Sample ID: 570-142231-4 DU
Matrix: Water
Analysis Batch: 339359

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3600		3780		mg/L		4	10

Method: SM 4500 CO2 D - Carbon Dioxide and Forms of Alkalinity by Calculation

Lab Sample ID: MB 570-339011/1
Matrix: Water
Analysis Batch: 339011

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	3.34		1.0	0.59	mg/L			06/20/23 13:48	1

Lab Sample ID: 570-140965-P-3 DU
Matrix: Water
Analysis Batch: 339011

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbon dioxide	1000	B	1000		mg/L		3	25

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 570-338995/5
Matrix: Water
Analysis Batch: 338995

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.017	mg/L			06/20/23 16:57	1

Lab Sample ID: LCS 570-338995/6
Matrix: Water
Analysis Batch: 338995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.500	0.555		mg/L		111	70 - 130

Lab Sample ID: LCSD 570-338995/7
Matrix: Water
Analysis Batch: 338995

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.500	0.550		mg/L		110	70 - 130	1	8

Lab Sample ID: 570-142075-N-1 MS
Matrix: Water
Analysis Batch: 338995

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.068		0.500	0.498		mg/L		86	70 - 130

Lab Sample ID: 570-142075-N-1 MSD
Matrix: Water
Analysis Batch: 338995

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.068		0.500	0.507		mg/L		88	70 - 130	2	20

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: MB 570-339702/5
Matrix: Water
Analysis Batch: 339702

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.017	mg/L			06/22/23 13:15	1

Lab Sample ID: LCS 570-339702/7
Matrix: Water
Analysis Batch: 339702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.500	0.531		mg/L		106	70 - 130

Lab Sample ID: LCSD 570-339702/8
Matrix: Water
Analysis Batch: 339702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.500	0.518		mg/L		104	70 - 130	3	8

Lab Sample ID: 570-142307-N-3 MS
Matrix: Water
Analysis Batch: 339702

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		0.500	0.539		mg/L		108	70 - 130

Lab Sample ID: 570-142307-N-3 MSD
Matrix: Water
Analysis Batch: 339702

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND		0.500	0.534		mg/L		107	70 - 130	1	20

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 570-339245/4
Matrix: Water
Analysis Batch: 339245

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon, Total Organic	ND		0.50	0.26	mg/L			06/20/23 14:27	1

Lab Sample ID: LCS 570-339245/5
Matrix: Water
Analysis Batch: 339245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon, Total Organic	5.03	5.55		mg/L		110	85 - 115

Method: SM 5310D - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCSD 570-339245/6
Matrix: Water
Analysis Batch: 339245

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic			5.03	5.54		mg/L		110	85 - 115	0	20

Lab Sample ID: 320-101477-G-3 MS ^20
Matrix: Water
Analysis Batch: 339245

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon, Total Organic	21		101	126		mg/L		104	31 - 145		

Lab Sample ID: 320-101477-G-3 MSD ^20
Matrix: Water
Analysis Batch: 339245

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic	21		101	126		mg/L		104	31 - 145	0	20

GC/MS VOA

Analysis Batch: 338774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	8260B	
570-142231-2	CM-10R	Total/NA	Water	8260B	
570-142231-3	CM-11R	Total/NA	Water	8260B	
570-142231-4	MW-6	Total/NA	Water	8260B	
570-142231-5	MW-14	Total/NA	Water	8260B	
570-142231-6	DW-2	Total/NA	Water	8260B	
570-142231-7	PZ-2	Total/NA	Water	8260B	
570-142231-8	DUPLICATE	Total/NA	Water	8260B	
570-142231-9	FIELD BLANK	Total/NA	Water	8260B	
570-142231-10	TRIP BLANK	Total/NA	Water	8260B	
MB 570-338774/7	Method Blank	Total/NA	Water	8260B	
LCS 570-338774/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-338774/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 339374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1 - RA	CM-9R3	Total/NA	Water	8260B	
570-142231-2 - RA	CM-10R	Total/NA	Water	8260B	
570-142231-3 - RA	CM-11R	Total/NA	Water	8260B	
570-142231-4 - RA	MW-6	Total/NA	Water	8260B	
570-142231-5 - RA	MW-14	Total/NA	Water	8260B	
570-142231-6 - RA	DW-2	Total/NA	Water	8260B	
570-142231-7 - RA	PZ-2	Total/NA	Water	8260B	
570-142231-8 - RA	DUPLICATE	Total/NA	Water	8260B	
570-142231-9 - RA	FIELD BLANK	Total/NA	Water	8260B	
570-142231-10 - RA	TRIP BLANK	Total/NA	Water	8260B	
MB 570-339374/6	Method Blank	Total/NA	Water	8260B	
LCS 570-339374/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-339374/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 339562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	3510C	
570-142231-2	CM-10R	Total/NA	Water	3510C	
570-142231-3	CM-11R	Total/NA	Water	3510C	
570-142231-4	MW-6	Total/NA	Water	3510C	
570-142231-5	MW-14	Total/NA	Water	3510C	
570-142231-6	DW-2	Total/NA	Water	3510C	
570-142231-7	PZ-2	Total/NA	Water	3510C	
570-142231-8	DUPLICATE	Total/NA	Water	3510C	
MB 570-339562/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-339562/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-339562/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 339935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	8270C SIM ID	339562
570-142231-2	CM-10R	Total/NA	Water	8270C SIM ID	339562
570-142231-3	CM-11R	Total/NA	Water	8270C SIM ID	339562

GC/MS Semi VOA (Continued)

Analysis Batch: 339935 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-4	MW-6	Total/NA	Water	8270C SIM ID	339562
570-142231-5	MW-14	Total/NA	Water	8270C SIM ID	339562
570-142231-6	DW-2	Total/NA	Water	8270C SIM ID	339562
570-142231-7	PZ-2	Total/NA	Water	8270C SIM ID	339562
570-142231-8	DUPLICATE	Total/NA	Water	8270C SIM ID	339562
MB 570-339562/1-A	Method Blank	Total/NA	Water	8270C SIM ID	339562
LCS 570-339562/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	339562
LCSD 570-339562/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	339562

HPLC/IC

Analysis Batch: 338716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	300.0	
570-142231-2	CM-10R	Total/NA	Water	300.0	
570-142231-3	CM-11R	Total/NA	Water	300.0	
570-142231-4	MW-6	Total/NA	Water	300.0	
570-142231-5	MW-14	Total/NA	Water	300.0	
570-142231-6	DW-2	Total/NA	Water	300.0	
570-142231-7	PZ-2	Total/NA	Water	300.0	
570-142231-8	DUPLICATE	Total/NA	Water	300.0	
MB 570-338716/5	Method Blank	Total/NA	Water	300.0	
LCS 570-338716/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-338716/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-142231-7 MS	PZ-2	Total/NA	Water	300.0	
570-142231-7 MSD	PZ-2	Total/NA	Water	300.0	

Analysis Batch: 338717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	300.0	
570-142231-1 - DL	CM-9R3	Total/NA	Water	300.0	
570-142231-2	CM-10R	Total/NA	Water	300.0	
570-142231-2 - DL	CM-10R	Total/NA	Water	300.0	
570-142231-3	CM-11R	Total/NA	Water	300.0	
570-142231-3 - DL	CM-11R	Total/NA	Water	300.0	
570-142231-4	MW-6	Total/NA	Water	300.0	
570-142231-4 - DL	MW-6	Total/NA	Water	300.0	
570-142231-5	MW-14	Total/NA	Water	300.0	
570-142231-5 - DL	MW-14	Total/NA	Water	300.0	
570-142231-6	DW-2	Total/NA	Water	300.0	
570-142231-6 - DL	DW-2	Total/NA	Water	300.0	
570-142231-7	PZ-2	Total/NA	Water	300.0	
570-142231-7 - DL	PZ-2	Total/NA	Water	300.0	
570-142231-8	DUPLICATE	Total/NA	Water	300.0	
570-142231-8 - DL	DUPLICATE	Total/NA	Water	300.0	
MB 570-338717/5	Method Blank	Total/NA	Water	300.0	
LCS 570-338717/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-338717/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-142231-7 MS	PZ-2	Total/NA	Water	300.0	
570-142231-7 MS - DL	PZ-2	Total/NA	Water	300.0	
570-142231-7 MSD	PZ-2	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 338717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-7 MSD - DL	PZ-2	Total/NA	Water	300.0	

Metals

Prep Batch: 338729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total Recoverable	Water	3005A	
570-142231-2	CM-10R	Total Recoverable	Water	3005A	
570-142231-3	CM-11R	Total Recoverable	Water	3005A	
570-142231-4	MW-6	Total Recoverable	Water	3005A	
570-142231-5	MW-14	Total Recoverable	Water	3005A	
570-142231-6	DW-2	Total Recoverable	Water	3005A	
570-142231-7	PZ-2	Total Recoverable	Water	3005A	
570-142231-8	DUPLICATE	Total Recoverable	Water	3005A	
MB 570-338729/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 570-338729/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 570-338729/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
570-141927-R-6-C MS	Matrix Spike	Total Recoverable	Water	3005A	
570-141927-R-6-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 339052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total Recoverable	Water	6010B	338729
570-142231-2	CM-10R	Total Recoverable	Water	6010B	338729
570-142231-3	CM-11R	Total Recoverable	Water	6010B	338729
570-142231-4	MW-6	Total Recoverable	Water	6010B	338729
570-142231-5	MW-14	Total Recoverable	Water	6010B	338729
570-142231-6	DW-2	Total Recoverable	Water	6010B	338729
570-142231-7	PZ-2	Total Recoverable	Water	6010B	338729
570-142231-7	PZ-2	Total Recoverable	Water	6010B	338729
570-142231-8	DUPLICATE	Total Recoverable	Water	6010B	338729
MB 570-338729/1-A	Method Blank	Total Recoverable	Water	6010B	338729
LCS 570-338729/2-A	Lab Control Sample	Total Recoverable	Water	6010B	338729
LCSD 570-338729/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	338729
570-141927-R-6-C MS	Matrix Spike	Total Recoverable	Water	6010B	338729
570-141927-R-6-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	338729

Analysis Batch: 339253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-5	MW-14	Total Recoverable	Water	6010B	338729

General Chemistry

Analysis Batch: 338914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	SM 2320B	
570-142231-2	CM-10R	Total/NA	Water	SM 2320B	
570-142231-3	CM-11R	Total/NA	Water	SM 2320B	
570-142231-4	MW-6	Total/NA	Water	SM 2320B	
570-142231-5	MW-14	Total/NA	Water	SM 2320B	
570-142231-6	DW-2	Total/NA	Water	SM 2320B	
570-142231-7	PZ-2	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 338914 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-8	DUPLICATE	Total/NA	Water	SM 2320B	
MB 570-338914/1	Method Blank	Total/NA	Water	SM 2320B	
LCS 570-338914/2	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 570-338914/3	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
570-140965-P-3 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 338995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	SM 4500 S2 D	
570-142231-2	CM-10R	Total/NA	Water	SM 4500 S2 D	
570-142231-3	CM-11R	Total/NA	Water	SM 4500 S2 D	
570-142231-4	MW-6	Total/NA	Water	SM 4500 S2 D	
570-142231-5	MW-14	Total/NA	Water	SM 4500 S2 D	
570-142231-6	DW-2	Total/NA	Water	SM 4500 S2 D	
570-142231-7	PZ-2	Total/NA	Water	SM 4500 S2 D	
MB 570-338995/5	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 570-338995/6	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 570-338995/7	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
570-142075-N-1 MS	Matrix Spike	Total/NA	Water	SM 4500 S2 D	
570-142075-N-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 339011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	SM 4500 CO2 D	
570-142231-2	CM-10R	Total/NA	Water	SM 4500 CO2 D	
570-142231-3	CM-11R	Total/NA	Water	SM 4500 CO2 D	
570-142231-4	MW-6	Total/NA	Water	SM 4500 CO2 D	
570-142231-5	MW-14	Total/NA	Water	SM 4500 CO2 D	
570-142231-6	DW-2	Total/NA	Water	SM 4500 CO2 D	
570-142231-7	PZ-2	Total/NA	Water	SM 4500 CO2 D	
570-142231-8	DUPLICATE	Total/NA	Water	SM 4500 CO2 D	
MB 570-339011/1	Method Blank	Total/NA	Water	SM 4500 CO2 D	
LCS 570-339011/2	Lab Control Sample	Total/NA	Water	SM 4500 CO2 D	
LCSD 570-339011/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 CO2 D	
570-140965-P-3 DU	Duplicate	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 339048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	SM 2540C	
570-142231-2	CM-10R	Total/NA	Water	SM 2540C	
570-142231-3	CM-11R	Total/NA	Water	SM 2540C	
MB 570-339048/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-339048/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-339048/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-142231-1 DU	CM-9R3	Total/NA	Water	SM 2540C	

Analysis Batch: 339245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	SM 5310D	
570-142231-2	CM-10R	Total/NA	Water	SM 5310D	
570-142231-3	CM-11R	Total/NA	Water	SM 5310D	

General Chemistry (Continued)

Analysis Batch: 339245 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-4	MW-6	Total/NA	Water	SM 5310D	
570-142231-5	MW-14	Total/NA	Water	SM 5310D	
570-142231-6	DW-2	Total/NA	Water	SM 5310D	
570-142231-7	PZ-2	Total/NA	Water	SM 5310D	
570-142231-8	DUPLICATE	Total/NA	Water	SM 5310D	
MB 570-339245/4	Method Blank	Total/NA	Water	SM 5310D	
LCS 570-339245/5	Lab Control Sample	Total/NA	Water	SM 5310D	
LCSD 570-339245/6	Lab Control Sample Dup	Total/NA	Water	SM 5310D	
320-101477-G-3 MS ^20	Matrix Spike	Total/NA	Water	SM 5310D	
320-101477-G-3 MSD ^20	Matrix Spike Duplicate	Total/NA	Water	SM 5310D	

Analysis Batch: 339359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-4	MW-6	Total/NA	Water	SM 2540C	
570-142231-5	MW-14	Total/NA	Water	SM 2540C	
570-142231-6	DW-2	Total/NA	Water	SM 2540C	
570-142231-7	PZ-2	Total/NA	Water	SM 2540C	
570-142231-8	DUPLICATE	Total/NA	Water	SM 2540C	
MB 570-339359/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-339359/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-339359/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-142231-4 DU	MW-6	Total/NA	Water	SM 2540C	

Prep Batch: 339377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	410.4	
570-142231-2	CM-10R	Total/NA	Water	410.4	
570-142231-3	CM-11R	Total/NA	Water	410.4	
570-142231-4	MW-6	Total/NA	Water	410.4	
570-142231-5	MW-14	Total/NA	Water	410.4	
570-142231-6	DW-2	Total/NA	Water	410.4	
570-142231-7	PZ-2	Total/NA	Water	410.4	
570-142231-8	DUPLICATE	Total/NA	Water	410.4	
MB 570-339377/3-A	Method Blank	Total/NA	Water	410.4	
LCS 570-339377/4-A	Lab Control Sample	Total/NA	Water	410.4	
LCSD 570-339377/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	
570-142231-1 MS	CM-9R3	Total/NA	Water	410.4	
570-142231-1 MSD	CM-9R3	Total/NA	Water	410.4	

Analysis Batch: 339418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	410.4	339377
570-142231-2	CM-10R	Total/NA	Water	410.4	339377
570-142231-3	CM-11R	Total/NA	Water	410.4	339377
570-142231-4	MW-6	Total/NA	Water	410.4	339377
570-142231-5	MW-14	Total/NA	Water	410.4	339377
570-142231-6	DW-2	Total/NA	Water	410.4	339377
570-142231-7	PZ-2	Total/NA	Water	410.4	339377
570-142231-8	DUPLICATE	Total/NA	Water	410.4	339377
MB 570-339377/3-A	Method Blank	Total/NA	Water	410.4	339377
LCS 570-339377/4-A	Lab Control Sample	Total/NA	Water	410.4	339377

General Chemistry (Continued)

Analysis Batch: 339418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-339377/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	339377
570-142231-1 MS	CM-9R3	Total/NA	Water	410.4	339377
570-142231-1 MSD	CM-9R3	Total/NA	Water	410.4	339377

Analysis Batch: 339702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-8	DUPLICATE	Total/NA	Water	SM 4500 S2 D	
MB 570-339702/5	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 570-339702/7	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 570-339702/8	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
570-142307-N-3 MS	Matrix Spike	Total/NA	Water	SM 4500 S2 D	
570-142307-N-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 S2 D	

Prep Batch: 341760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	Distill/Ammonia	
570-142231-2	CM-10R	Total/NA	Water	Distill/Ammonia	
570-142231-3	CM-11R	Total/NA	Water	Distill/Ammonia	
570-142231-4	MW-6	Total/NA	Water	Distill/Ammonia	
570-142231-5	MW-14	Total/NA	Water	Distill/Ammonia	
570-142231-6	DW-2	Total/NA	Water	Distill/Ammonia	
570-142231-7	PZ-2	Total/NA	Water	Distill/Ammonia	
570-142231-8	DUPLICATE	Total/NA	Water	Distill/Ammonia	
MB 570-341760/5-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 570-341760/6-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
LCSD 570-341760/7-A	Lab Control Sample Dup	Total/NA	Water	Distill/Ammonia	
570-142231-1 MS	CM-9R3	Total/NA	Water	Distill/Ammonia	
570-142231-1 MSD	CM-9R3	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 341767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142231-1	CM-9R3	Total/NA	Water	350.1	341760
570-142231-2	CM-10R	Total/NA	Water	350.1	341760
570-142231-3	CM-11R	Total/NA	Water	350.1	341760
570-142231-4	MW-6	Total/NA	Water	350.1	341760
570-142231-5	MW-14	Total/NA	Water	350.1	341760
570-142231-6	DW-2	Total/NA	Water	350.1	341760
570-142231-7	PZ-2	Total/NA	Water	350.1	341760
570-142231-8	DUPLICATE	Total/NA	Water	350.1	341760
MB 570-341760/5-A	Method Blank	Total/NA	Water	350.1	341760
LCS 570-341760/6-A	Lab Control Sample	Total/NA	Water	350.1	341760
LCSD 570-341760/7-A	Lab Control Sample Dup	Total/NA	Water	350.1	341760
570-142231-1 MS	CM-9R3	Total/NA	Water	350.1	341760
570-142231-1 MSD	CM-9R3	Total/NA	Water	350.1	341760

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: CM-9R3

Date Collected: 06/19/23 10:35
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	338774	06/20/23 13:20	P3GT	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	339374	06/21/23 23:47	N1A	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			130.5 mL	10 mL	339562	06/22/23 08:48	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339935	06/24/23 00:15	A1W	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		1	4 mL	4 mL	338716	06/20/23 07:24	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0		1	4 mL	4 mL	338717	06/20/23 07:24	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0	DL	100	4 mL	4 mL	338717	06/20/23 11:30	PS	EET CAL 4
	Instrument ID: IC9									
Total Recoverable	Prep	3005A			50 mL	50 mL	338729	06/20/23 06:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339052	06/20/23 15:15	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 12:57	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	338914	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	40 mL	1000 mL	339048	06/20/23 18:54	TX3E	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			339011	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	338995	06/20/23 16:59	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		10	40 mL	40 mL	339245	06/20/23 21:36	ZL4M	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: CM-10R

Date Collected: 06/19/23 11:45
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	338774	06/20/23 13:45	P3GT	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	339374	06/22/23 00:11	N1A	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			132.1 mL	10 mL	339562	06/22/23 08:48	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339935	06/24/23 00:30	A1W	EET CAL 4
	Instrument ID: GCMSDDD									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: CM-10R

Date Collected: 06/19/23 11:45
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	338716	06/20/23 07:41	PS	EET CAL 4
Total/NA	Analysis	300.0		1	4 mL	4 mL	338717	06/20/23 07:41	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0	DL	100	4 mL	4 mL	338717	06/20/23 12:38	PS	EET CAL 4
	Instrument ID: IC9									
Total Recoverable	Prep	3005A			50 mL	50 mL	338729	06/20/23 06:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339052	06/20/23 15:18	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:07	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	338914	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	339048	06/20/23 18:54	TX3E	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			339011	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	338995	06/20/23 16:59	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	339245	06/20/23 21:55	ZL4M	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: CM-11R

Date Collected: 06/19/23 09:13
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	338774	06/20/23 14:10	P3GT	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	339374	06/22/23 00:36	N1A	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			129.2 mL	10 mL	339562	06/22/23 08:48	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339935	06/24/23 00:44	A1W	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		1	4 mL	4 mL	338716	06/20/23 07:58	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0		1	4 mL	4 mL	338717	06/20/23 07:58	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0	DL	100	4 mL	4 mL	338717	06/20/23 12:55	PS	EET CAL 4
	Instrument ID: IC9									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: CM-11R

Date Collected: 06/19/23 09:13
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	338729	06/20/23 06:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339052	06/20/23 15:20	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 12:58	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	338914	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	339048	06/20/23 18:54	TX3E	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			339011	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	338995	06/20/23 16:59	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		4	40 mL	40 mL	339245	06/20/23 22:15	ZL4M	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: MW-6

Date Collected: 06/19/23 12:34
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	338774	06/20/23 14:35	P3GT	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	339374	06/22/23 01:01	N1A	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			132.8 mL	10 mL	339562	06/22/23 08:48	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339935	06/24/23 00:58	A1W	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		1	4 mL	4 mL	338716	06/20/23 08:15	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0		1	4 mL	4 mL	338717	06/20/23 08:15	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0	DL	100	4 mL	4 mL	338717	06/20/23 13:29	PS	EET CAL 4
	Instrument ID: IC9									
Total Recoverable	Prep	3005A			50 mL	50 mL	338729	06/20/23 06:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339052	06/20/23 15:23	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:00	UXCH	EET CAL 4
	Instrument ID: ACA2									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: MW-6

Date Collected: 06/19/23 12:34
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	338914	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	20 mL	1000 mL	339359	06/21/23 16:12	ZL7L	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			339011	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH4									
Total/NA	Analysis	SM 4500 S2 D		10	7.5 mL	7.5 mL	338995	06/20/23 16:59	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		4	40 mL	40 mL	339245	06/20/23 22:34	ZL4M	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: MW-14

Date Collected: 06/19/23 10:25
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	338774	06/20/23 15:01	P3GT	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	339374	06/22/23 01:26	N1A	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			135.2 mL	10 mL	339562	06/22/23 08:48	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339935	06/24/23 01:13	A1W	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338716	06/20/23 08:32	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338717	06/20/23 08:32	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0	DL	100	4 mL	4 mL	338717	06/20/23 13:46	PS	EET CAL 4
	Instrument ID: IC9									
Total Recoverable	Prep	3005A			50 mL	50 mL	338729	06/20/23 06:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339052	06/20/23 15:25	P1R	EET CAL 4
	Instrument ID: ICP11									
Total Recoverable	Prep	3005A			50 mL	50 mL	338729	06/20/23 06:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		2			339253	06/21/23 10:47	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:01	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-142231-1
Project/Site: Republic Sunshine Canyon 2023

Client Sample ID: MW-14
Lab Sample ID: 570-142231-5
Date Collected: 06/19/23 10:25
Matrix: Water
Date Received: 06/19/23 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	338914	06/20/23 13:48	UAPD	EET CAL 4
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	339359	06/21/23 16:13	ZL7L	EET CAL 4
	Instrument ID:	BAL100								
Total/NA	Analysis	SM 4500 CO2 D		1			339011	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID:	PH4								
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	338995	06/20/23 16:59	GG0B	EET CAL 4
	Instrument ID:	UV11								
Total/NA	Analysis	SM 5310D		4	40 mL	40 mL	339245	06/20/23 22:53	ZL4M	EET CAL 4
	Instrument ID:	TOC12								

Client Sample ID: DW-2
Lab Sample ID: 570-142231-6
Date Collected: 06/19/23 12:55
Matrix: Water
Date Received: 06/19/23 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	338774	06/20/23 15:26	P3GT	EET CAL 4
	Instrument ID:	GCMSL								
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	339374	06/22/23 01:51	N1A	EET CAL 4
	Instrument ID:	GCMSUU								
Total/NA	Prep	3510C			132.6 mL	10 mL	339562	06/22/23 08:48	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339935	06/24/23 01:27	A1W	EET CAL 4
	Instrument ID:	GCMSDDD								
Total/NA	Analysis	300.0		1	4 mL	4 mL	338716	06/20/23 08:49	PS	EET CAL 4
	Instrument ID:	IC9								
Total/NA	Analysis	300.0		1	4 mL	4 mL	338717	06/20/23 08:49	PS	EET CAL 4
	Instrument ID:	IC9								
Total/NA	Analysis	300.0	DL	100	4 mL	4 mL	338717	06/20/23 14:03	PS	EET CAL 4
	Instrument ID:	IC9								
Total Recoverable	Prep	3005A			50 mL	50 mL	338729	06/20/23 06:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339052	06/20/23 15:27	P1R	EET CAL 4
	Instrument ID:	ICP11								
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:03	UXCH	EET CAL 4
	Instrument ID:	ACA2								
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID:	UV10								
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	338914	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID:	PH1								
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	339359	06/21/23 16:13	ZL7L	EET CAL 4
	Instrument ID:	BAL100								
Total/NA	Analysis	SM 4500 CO2 D		1			339011	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID:	PH4								

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-142231-1
Project/Site: Republic Sunshine Canyon 2023

Client Sample ID: DW-2
Lab Sample ID: 570-142231-6
Date Collected: 06/19/23 12:55
Matrix: Water
Date Received: 06/19/23 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	338995	06/20/23 16:59	GG0B	EET CAL 4
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	339245	06/20/23 23:13	ZL4M	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: PZ-2
Lab Sample ID: 570-142231-7
Date Collected: 06/19/23 08:52
Matrix: Water
Date Received: 06/19/23 17:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	338774	06/20/23 15:51	P3GT	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	339374	06/22/23 02:16	N1A	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			134.7 mL	10 mL	339562	06/22/23 08:48	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339935	06/24/23 01:42	A1W	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338716	06/20/23 09:06	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338717	06/20/23 09:06	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0	DL	40	4 mL	4 mL	338717	06/20/23 10:40	PS	EET CAL 4
	Instrument ID: IC9									
Total Recoverable	Prep	3005A			50 mL	50 mL	338729	06/20/23 06:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339052	06/20/23 15:30	P1R	EET CAL 4
	Instrument ID: ICP11									
Total Recoverable	Prep	3005A			50 mL	50 mL	338729	06/20/23 06:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		2			339052	06/20/23 16:25	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:04	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	338914	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	20 mL	1000 mL	339359	06/21/23 16:13	ZL7L	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			339011	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	338995	06/20/23 16:59	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	339245	06/20/23 23:32	ZL4M	EET CAL 4
	Instrument ID: TOC12									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: DUPLICATE

Date Collected: 06/19/23 00:00
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	338774	06/20/23 16:16	P3GT	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	339374	06/22/23 02:41	N1A	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			123.9 mL	10 mL	339562	06/22/23 08:48	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339935	06/24/23 01:56	A1W	EET CAL 4
	Instrument ID: GCMSDDD									
Total/NA	Analysis	300.0		1	4 mL	4 mL	338716	06/20/23 09:23	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0		1	4 mL	4 mL	338717	06/20/23 09:23	PS	EET CAL 4
	Instrument ID: IC9									
Total/NA	Analysis	300.0	DL	100	4 mL	4 mL	338717	06/20/23 14:19	PS	EET CAL 4
	Instrument ID: IC9									
Total Recoverable	Prep	3005A			50 mL	50 mL	338729	06/20/23 06:34	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339052	06/20/23 16:06	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:06	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	338914	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	20 mL	1000 mL	339359	06/21/23 16:13	ZL7L	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			339011	06/20/23 13:48	UAPD	EET CAL 4
	Instrument ID: PH4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	339702	06/22/23 13:16	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	339245	06/20/23 23:51	ZL4M	EET CAL 4
	Instrument ID: TOC12									

Client Sample ID: FIELD BLANK

Date Collected: 06/19/23 00:00
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	338774	06/20/23 12:55	P3GT	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	339374	06/21/23 23:22	N1A	EET CAL 4
	Instrument ID: GCMSUU									

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Client Sample ID: TRIP BLANK

Date Collected: 06/19/23 00:00
Date Received: 06/19/23 17:07

Lab Sample ID: 570-142231-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	338774	06/20/23 12:29	P3GT	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	339374	06/21/23 22:57	N1A	EET CAL 4
	Instrument ID: GCMSUU									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geo-Logic Associates
Job ID: 570-142231-1
Project/Site: Republic Sunshine Canyon 2023

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	Los Angeles County Sanitation Districts	10109	07-31-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Kansas	NELAP	E-10420	07-31-23
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	05-24-23 *
Washington	State	C916-18	10-11-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
350.1	Nitrogen, Ammonia	EPA	EET CAL 4
410.4	COD	EPA	EET CAL 4
SM 2320B	Alkalinity	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	EET CAL 4
SM 4500 S2 D	Sulfide, Total	SM	EET CAL 4
SM 5310D	Organic Carbon, Total (TOC)	SM	EET CAL 4
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
410.4	COD	EPA	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
Distill/Ammonia	Distillation, Ammonia	None	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023

Job ID: 570-142231-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-142231-1	CM-9R3	Water	06/19/23 10:35	06/19/23 17:07
570-142231-2	CM-10R	Water	06/19/23 11:45	06/19/23 17:07
570-142231-3	CM-11R	Water	06/19/23 09:13	06/19/23 17:07
570-142231-4	MW-6	Water	06/19/23 12:34	06/19/23 17:07
570-142231-5	MW-14	Water	06/19/23 10:25	06/19/23 17:07
570-142231-6	DW-2	Water	06/19/23 12:55	06/19/23 17:07
570-142231-7	PZ-2	Water	06/19/23 08:52	06/19/23 17:07
570-142231-8	DUPLICATE	Water	06/19/23 00:00	06/19/23 17:07
570-142231-9	FIELD BLANK	Water	06/19/23 00:00	06/19/23 17:07
570-142231-10	TRIP BLANK	Water	06/19/23 00:00	06/19/23 17:07

142231

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

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Client Information	Sampler: NR, MA, CV	Lab PM: Rossina Tomova	Carrier Tracking No(s):	COC No:
Client Contact: Kyle Welchans	Phone: 858 - 451-1136	E-Mail:		Page: 1 of 1
Company: Geo-Logic Associates				Job #:
Address: 11415 W Bernardo Ct	Due Date Requested:			
City: San Diego	TAT Requested (days):			
State, Zip: CA 92127	PO #:			
Phone: 858 - 451-1136	WO #:			
Email: kwelchans@geo-logic.com	Project #: S022.1227			
Project Name: Replublic Services, Inc	SSOW#:			
Site: Sunshine Canyon Landfill				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 8260B VOCs	EPA 8270 - 1,4 Dioxane	EPA 310.1 - Total Alkalinity and Bicarbonate	EPA 350.2 - Ammonia as N	EPA 410.4 - COD	EPA 300.0 - Chloride, Bromide, Nitrate-N, Sulfate	EPA 6010B - Total B, Ca, Fe, Mg, Mn, K, Na	EPA 160.1 Total Dissolved Solids	EPA 415.1 - Total Organic Carbon	EPA 340.2 - Fluoride	EPA 376.2 - Sulfide	SM-4500-CO2C - Carbon Dioxide	Total Number of containers	Special Instructions/Note:
	Preservation Code:																				
1	CM-9R3	6-19-23	1035	G	GW			X	X	X	X	X	X	X	X	X	X	X			
2	CM-10R		1145					X	X	X	X	X	X	X	X	X	X	X			
3	CM-11R		0913					X	X	X	X	X	X	X	X	X	X	X			
4	MW-6		1234					X	X	X	X	X	X	X	X	X	X	X			
5	MW-14		1025					X	X	X	X	X	X	X	X	X	X	X			
6	DW-2		1255					X	X	X	X	X	X	X	X	X	X	X			
7	P2-2		0852					X	X	X	X	X	X	X	X	X	X	X			
8	DUPLICATE		—					X	X	X	X	X	X	X	X	X	X	X			
9	FIELD BLANK		—		LAB H2O			X													
10	Trip Blank		—		LAB H2O			X													

570-142231 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/19/23 / 1415	GLA		6/19/23 1415	EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/19/23 1707	EC		6/19/23 1707	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

1.2/1.6 SC12
1.9/1.8

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 570-142231-1

Login Number: 142231
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Welchans
Geo-Logic Associates
11415 West Bernardo Court
Suite 200
San Diego, California 92127

Generated 7/5/2023 11:02:25 AM

JOB DESCRIPTION

Republic Sunshine Canyon 2023 GW/Leachat

JOB NUMBER

570-142307-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

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Authorized for release by
Rossina Tomova, Project Manager I
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(657)210-6367

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Definitions/Glossary

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-142307-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-142307-1

Comments
No additional comments.

Receipt
The samples were received on 6/20/2023 7:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.9º C and 2.3º C.

GC/MS VOA
Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-339518. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 570-339518 recovered outside control limits for the following analyte: 2-Chloroethyl vinyl ether.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-339901. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-340348. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Fluoride for analytical batch 570-338708 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The following samples were diluted due to the nature of the sample matrix: PZ-4 (570-142307-1) and LY-7 (570-142307-8). Elevated reporting limits (RLs) are provided.

Method 300.0: Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 570-339994 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300.0: The following samples were diluted due to the nature of the sample matrix: PZ-4 (570-142307-1), MW-13R (570-142307-2), MW-1 (570-142307-4), DW-5 (570-142307-5), Combined Subdrain (570-142307-7) and LY-7 (570-142307-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Methods 200.7, 3005A: The reference method requires samples to be preserved to a pH of <2. The following samples were received with insufficient preservation at a pH of >2: LY-7 (570-142307-8). The sample(s) was preserved to the appropriate pH in the laboratory.

Method 6010B: The method blank for preparation batch 570-339131 and analytical batch 570-339665 contained Iron above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of

Job ID: 570-142307-1 (Continued)

Laboratory: Eurofins Calscience (Continued)

samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method SM 4500 S2 D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 570-340884 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-339721. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: PZ-4
Lab Sample ID: 570-142307-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.8		2.0	0.72	mg/L	2		300.0	Total/NA
Fluoride	1.2		0.20	0.092	mg/L	2		300.0	Total/NA
Sulfate - DL	600		10	2.4	mg/L	10		300.0	Total/NA
Boron	0.19	J	0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	150		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	1.2	B	0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	85		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	0.13		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	4.6		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	110		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	2.3		0.075	0.029	mg/L	1		350.1	Total/NA
Alkalinity, Total (As CaCO3)	330		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	330		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1200		20	17	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	290		1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Carbon, Total Organic	1.1		0.50	0.26	mg/L	1		SM 5310D	Total/NA

Client Sample ID: MW-13R
Lab Sample ID: 570-142307-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
t-Butanol	3.1	J	5.0	3.1	ug/L	1		8260B	Total/NA
1,4-Dioxane	5.0		0.38	0.26	ug/L	1		8270C SIM ID	Total/NA
Bromide	1.2		0.20	0.082	mg/L	2		300.0	Total/NA
Fluoride	0.48		0.20	0.092	mg/L	2		300.0	Total/NA
Sulfate	190		2.0	0.47	mg/L	2		300.0	Total/NA
Chloride - DL	100		20	7.2	mg/L	20		300.0	Total/NA
Boron	0.80		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	94		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	0.059	J B	0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	120		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	0.0029	J	0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	30		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	170		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	9.6		0.075	0.029	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	520		100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	810		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	690		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1300		20	17	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	700		1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Sulfide	280		25	8.3	mg/L	500		SM 4500 S2 D	Total/NA
Carbon, Total Organic	23		10	5.3	mg/L	20		SM 5310D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: MW-5
Lab Sample ID: 570-142307-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.3		0.38	0.26	ug/L	1		8270C SIM ID	Total/NA
Bromide	0.87		0.20	0.082	mg/L	2		300.0	Total/NA
Nitrate as N	0.071	J	0.20	0.039	mg/L	2		300.0	Total/NA
Fluoride	1.7		0.20	0.092	mg/L	2		300.0	Total/NA
Chloride - DL	120		20	7.2	mg/L	20		300.0	Total/NA
Sulfate - DL	1400		20	4.7	mg/L	20		300.0	Total/NA
Boron	1.0		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	350		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	25	B	0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	150		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	3.5		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	19		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	250		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	2.9		0.075	0.029	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	47	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	500		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	500		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2900		20	17	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	450		1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Carbon, Total Organic	12		10	5.3	mg/L	20		SM 5310D	Total/NA

Client Sample ID: MW-1
Lab Sample ID: 570-142307-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrahydrofuran	2.1		2.0	1.3	ug/L	1		8260B	Total/NA
1,4-Dioxane	12		0.38	0.26	ug/L	1		8270C SIM ID	Total/NA
Bromide	3.9		0.20	0.082	mg/L	2		300.0	Total/NA
Fluoride	2.3		0.20	0.092	mg/L	2		300.0	Total/NA
Chloride - DL	270		20	7.2	mg/L	20		300.0	Total/NA
Sulfate - DL	1900		20	4.7	mg/L	20		300.0	Total/NA
Boron	0.98		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	490		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	50	B	0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	220		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	2.7		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	35		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	250		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	4.5		0.075	0.029	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	100		100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	460		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	460		5.0	2.2	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample ID: MW-1 (Continued)
Lab Sample ID: 570-142307-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	3600		25	22	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	410		1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Carbon, Total Organic	24		10	5.3	mg/L	20		SM 5310D	Total/NA

Client Sample ID: DW-5
Lab Sample ID: 570-142307-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isobutyl alcohol	100		50	35	ug/L	1		8260B	Total/NA
Naphthalene	0.72	J	1.0	0.55	ug/L	1		8260B	Total/NA
t-Butanol	3.7	J	5.0	3.1	ug/L	1		8260B	Total/NA
Toluene	0.30	J	0.50	0.14	ug/L	1		8260B	Total/NA
Bromide	0.12	J	0.20	0.082	mg/L	2		300.0	Total/NA
Fluoride	3.5		0.20	0.092	mg/L	2		300.0	Total/NA
Sulfate	1.2	J	2.0	0.47	mg/L	2		300.0	Total/NA
Chloride - DL	19	J	20	7.2	mg/L	20		300.0	Total/NA
Boron	2.8		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	5.7		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	0.16	J B	0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	0.95		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	0.097		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	0.91	J	2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	440		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	0.25		0.075	0.029	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	24	J	100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	960		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	930		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		20	17	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	840		1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Sulfide	0.035	J	0.050	0.017	mg/L	1		SM 4500 S2 D	Total/NA
Carbon, Total Organic	7.5		2.0	1.1	mg/L	4		SM 5310D	Total/NA

Client Sample ID: DW-3
Lab Sample ID: 570-142307-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13		1.0	0.36	mg/L	1		300.0	Total/NA
Fluoride	0.29		0.10	0.046	mg/L	1		300.0	Total/NA
Sulfate - DL	1100		20	4.7	mg/L	20		300.0	Total/NA
Boron	0.053	J	0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	310		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	0.60	B	0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	110		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	0.058		0.050	0.0013	mg/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: DW-3 (Continued)
Lab Sample ID: 570-142307-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	8.9		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	69		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	0.56		0.075	0.029	mg/L	1		350.1	Total/NA
Alkalinity, Total (As CaCO3)	150		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	150		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1900		20	17	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	130		1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA

Client Sample ID: Combined Subdrain
Lab Sample ID: 570-142307-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	6.1		0.50	0.11	ug/L	1		8260B	Total/NA
Benzene	1.3		0.50	0.14	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.2		0.50	0.16	ug/L	1		8260B	Total/NA
Chlorobenzene	0.39	J	0.50	0.12	ug/L	1		8260B	Total/NA
Ethylbenzene	0.21	J	0.50	0.16	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	0.69		0.50	0.14	ug/L	1		8260B	Total/NA
Tetrahydrofuran	1.4	J	2.0	1.3	ug/L	1		8260B	Total/NA
Trichloroethene	0.18	J	0.50	0.15	ug/L	1		8260B	Total/NA
1,4-Dioxane	5.2		0.40	0.27	ug/L	1		8270C SIM ID	Total/NA
Bromide	1.0		0.20	0.082	mg/L	2		300.0	Total/NA
Chloride	65		2.0	0.72	mg/L	2		300.0	Total/NA
Fluoride	1.6		0.20	0.092	mg/L	2		300.0	Total/NA
Sulfate - DL	1700		40	9.5	mg/L	40		300.0	Total/NA
Boron	0.93		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	440		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	49	B	0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	220		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	8.8		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	16		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	230		2.0	0.31	mg/L	1		6010B	Total Recoverable
Ammonia (as N)	3.7		0.075	0.029	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	110		100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	520		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	520		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3600		25	22	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	790		1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Sulfide	0.084		0.050	0.017	mg/L	1		SM 4500 S2 D	Total/NA
Carbon, Total Organic	31		10	5.3	mg/L	20		SM 5310D	Total/NA

Client Sample ID: LY-7
Lab Sample ID: 570-142307-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.8		0.50	0.11	ug/L	1		8260B	Total/NA
Benzene	1.2		0.50	0.14	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LY-7 (Continued)
Lab Sample ID: 570-142307-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		0.50	0.16	ug/L	1		8260B	Total/NA
Chlorobenzene	0.29	J	0.50	0.12	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	2.1		0.50	0.14	ug/L	1		8260B	Total/NA
Tetrahydrofuran	2.5		2.0	1.3	ug/L	1		8260B	Total/NA
1,4-Dioxane	18		0.39	0.27	ug/L	1		8270C SIM ID	Total/NA
Fluoride	0.64		0.20	0.092	mg/L	2		300.0	Total/NA
Chloride - DL	490		40	14	mg/L	40		300.0	Total/NA
Sulfate - DL	580		40	9.5	mg/L	40		300.0	Total/NA
Boron	6.7		0.50	0.0039	mg/L	1		6010B	Total Recoverable
Calcium	200		2.0	0.028	mg/L	1		6010B	Total Recoverable
Iron	0.30	J	0.50	0.013	mg/L	1		6010B	Total Recoverable
Magnesium	170		0.50	0.048	mg/L	1		6010B	Total Recoverable
Manganese	1.9		0.050	0.0013	mg/L	1		6010B	Total Recoverable
Potassium	37		2.0	0.58	mg/L	1		6010B	Total Recoverable
Sodium	1100		10	1.5	mg/L	5		6010B	Total Recoverable
Ammonia (as N)	19		0.15	0.057	mg/L	2		350.1	Total/NA
Chemical Oxygen Demand	240		100	14	mg/L	1		410.4	Total/NA
Alkalinity, Total (As CaCO3)	2300		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	2300		5.0	2.2	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	4300		50	44	mg/L	1		SM 2540C	Total/NA
Carbon dioxide	2100		1.0	0.59	mg/L	1		SM 4500 CO2 D	Total/NA
Carbon, Total Organic	72		50	26	mg/L	100		SM 5310D	Total/NA

Client Sample ID: Field Blank
Lab Sample ID: 570-142307-9

No Detections.

Client Sample ID: Trip Blank
Lab Sample ID: 570-142307-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: PZ-4
Lab Sample ID: 570-142307-1
Date Collected: 06/20/23 11:55
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/22/23 12:10	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/22/23 12:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/22/23 12:10	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/22/23 12:10	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/22/23 12:10	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/22/23 12:10	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/22/23 12:10	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/22/23 12:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/22/23 12:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/22/23 12:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/22/23 12:10	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/22/23 12:10	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/22/23 12:10	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/22/23 12:10	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/22/23 12:10	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/22/23 12:10	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/22/23 12:10	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/22/23 12:10	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/22/23 12:10	1
2-Chloroethyl vinyl ether	ND	*1	5.0	4.5	ug/L			06/22/23 12:10	1
2-Hexanone	ND		6.0	2.0	ug/L			06/22/23 12:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/22/23 12:10	1
Acetone	ND		8.0	3.6	ug/L			06/22/23 12:10	1
Acrolein	ND		4.0	3.6	ug/L			06/22/23 12:10	1
Allyl chloride	ND		2.0	0.47	ug/L			06/22/23 12:10	1
Benzene	ND		0.50	0.14	ug/L			06/22/23 12:10	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/22/23 12:10	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/22/23 12:10	1
Bromoform	ND		0.50	0.28	ug/L			06/22/23 12:10	1
Bromomethane	ND		2.0	1.9	ug/L			06/22/23 12:10	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/22/23 12:10	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/22/23 12:10	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/22/23 12:10	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/22/23 12:10	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/22/23 12:10	1
Chloroethane	ND		0.50	0.38	ug/L			06/22/23 12:10	1
Chloroform	ND		0.50	0.17	ug/L			06/22/23 12:10	1
Chloromethane	ND		1.0	0.65	ug/L			06/22/23 12:10	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/22/23 12:10	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/22/23 12:10	1
Dibromomethane	ND		0.50	0.16	ug/L			06/22/23 12:10	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/22/23 12:10	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/22/23 12:10	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/22/23 12:10	1
Iodomethane	ND		25	8.7	ug/L			06/22/23 12:10	1
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 12:10	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/22/23 12:10	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/22/23 12:10	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/22/23 12:10	1

Client Sample ID: PZ-4
Date Collected: 06/20/23 11:55
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/22/23 12:10	1
Naphthalene	ND		1.0	0.55	ug/L			06/22/23 12:10	1
o-Xylene	ND		0.50	0.18	ug/L			06/22/23 12:10	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/22/23 12:10	1
Propionitrile	ND		5.0	3.1	ug/L			06/22/23 12:10	1
Styrene	ND		0.50	0.27	ug/L			06/22/23 12:10	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/22/23 12:10	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/22/23 12:10	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/22/23 12:10	1
t-Butanol	ND		5.0	3.1	ug/L			06/22/23 12:10	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/22/23 12:10	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/22/23 12:10	1
Toluene	ND		0.50	0.14	ug/L			06/22/23 12:10	1
Trichloroethene	ND		0.50	0.15	ug/L			06/22/23 12:10	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/22/23 12:10	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/22/23 12:10	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/22/23 12:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Germacyclohexane, 1,1-dichloro-	*130*	*T J N*	*ug/L*		*1.72*	*56438-28-9*		*06/22/23 12:10*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 132*		*06/22/23 12:10*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*06/22/23 12:10*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/22/23 12:10*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/22/23 12:10*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.38	0.26	ug/L		06/22/23 14:03	06/23/23 13:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*21 - 120*	*06/22/23 14:03*	*06/23/23 13:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*74*		*58 - 135*	*06/22/23 14:03*	*06/23/23 13:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.082	mg/L			06/20/23 23:45	2
Nitrate as N	ND		0.20	0.039	mg/L			06/20/23 23:45	2
Chloride	**7.8**		2.0	0.72	mg/L			06/20/23 23:45	2
Fluoride	**1.2**		0.20	0.092	mg/L			06/20/23 23:45	2

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**600**		10	2.4	mg/L			06/21/23 03:07	10

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.19**	**J**	0.50	0.0039	mg/L		06/21/23 06:54	06/22/23 10:16	1
Calcium	**150**		2.0	0.028	mg/L		06/21/23 06:54	06/22/23 10:16	1

Client Sample ID: PZ-4
Lab Sample ID: 570-142307-1
Date Collected: 06/20/23 11:55
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.2	B	0.50	0.013	mg/L		06/21/23 06:54	06/22/23 10:16	1
Magnesium	85		0.50	0.048	mg/L		06/21/23 06:54	06/22/23 10:16	1
Manganese	0.13		0.050	0.0013	mg/L		06/21/23 06:54	06/22/23 10:16	1
Potassium	4.6		2.0	0.58	mg/L		06/21/23 06:54	06/22/23 10:16	1
Sodium	110		2.0	0.31	mg/L		06/21/23 06:54	06/22/23 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	2.3		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:22	1
Chemical Oxygen Demand (EPA 410.4)	ND		100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	330		5.0	2.2	mg/L			07/03/23 15:04	1
Bicarbonate (as CaCO3) (SM 2320B)	330		5.0	2.2	mg/L			07/03/23 15:04	1
Total Dissolved Solids (SM 2540C)	1200		20	17	mg/L			06/22/23 15:22	1
Carbon dioxide (SM 4500 CO2 D)	290		1.0	0.59	mg/L			07/03/23 15:04	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.017	mg/L			06/22/23 13:15	1
Carbon, Total Organic (SM 5310D)	1.1		0.50	0.26	mg/L			06/23/23 14:59	1

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: MW-13R
Lab Sample ID: 570-142307-2
Date Collected: 06/20/23 09:32
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/22/23 12:35	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/22/23 12:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/22/23 12:35	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/22/23 12:35	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/22/23 12:35	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/22/23 12:35	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/22/23 12:35	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/22/23 12:35	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/22/23 12:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/22/23 12:35	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/22/23 12:35	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/22/23 12:35	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/22/23 12:35	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/22/23 12:35	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/22/23 12:35	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/22/23 12:35	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/22/23 12:35	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/22/23 12:35	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/22/23 12:35	1
2-Chloroethyl vinyl ether	ND	*1	5.0	4.5	ug/L			06/22/23 12:35	1
2-Hexanone	ND		6.0	2.0	ug/L			06/22/23 12:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/22/23 12:35	1
Acetone	ND		8.0	3.6	ug/L			06/22/23 12:35	1
Acrolein	ND		4.0	3.6	ug/L			06/22/23 12:35	1
Allyl chloride	ND		2.0	0.47	ug/L			06/22/23 12:35	1
Benzene	ND		0.50	0.14	ug/L			06/22/23 12:35	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/22/23 12:35	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/22/23 12:35	1
Bromoform	ND		0.50	0.28	ug/L			06/22/23 12:35	1
Bromomethane	ND		2.0	1.9	ug/L			06/22/23 12:35	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/22/23 12:35	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/22/23 12:35	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/22/23 12:35	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/22/23 12:35	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/22/23 12:35	1
Chloroethane	ND		0.50	0.38	ug/L			06/22/23 12:35	1
Chloroform	ND		0.50	0.17	ug/L			06/22/23 12:35	1
Chloromethane	ND		1.0	0.65	ug/L			06/22/23 12:35	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/22/23 12:35	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/22/23 12:35	1
Dibromomethane	ND		0.50	0.16	ug/L			06/22/23 12:35	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/22/23 12:35	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/22/23 12:35	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/22/23 12:35	1
Iodomethane	ND		25	8.7	ug/L			06/22/23 12:35	1
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 12:35	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/22/23 12:35	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/22/23 12:35	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/22/23 12:35	1

Client Sample ID: MW-13R
Date Collected: 06/20/23 09:32
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/22/23 12:35	1
Naphthalene	ND		1.0	0.55	ug/L			06/22/23 12:35	1
o-Xylene	ND		0.50	0.18	ug/L			06/22/23 12:35	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/22/23 12:35	1
Propionitrile	ND		5.0	3.1	ug/L			06/22/23 12:35	1
Styrene	ND		0.50	0.27	ug/L			06/22/23 12:35	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/22/23 12:35	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/22/23 12:35	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/22/23 12:35	1
t-Butanol	**3.1**	**J**	5.0	3.1	ug/L			06/22/23 12:35	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/22/23 12:35	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/22/23 12:35	1
Toluene	ND		0.50	0.14	ug/L			06/22/23 12:35	1
Trichloroethene	ND		0.50	0.15	ug/L			06/22/23 12:35	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/22/23 12:35	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/22/23 12:35	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/22/23 12:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Sulfur dioxide	*290*	*T J N*	*ug/L*		*2.11*	*7446-09-5*		*06/22/23 12:35*	*1*
Taurine	*71*	*T J N*	*ug/L*		*2.59*	*107-35-7*		*06/22/23 12:35*	*1*
Dimethyl sulfide	*49*	*T J N*	*ug/L*		*3.68*	*75-18-3*		*06/22/23 12:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 132*		*06/22/23 12:35*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*		*06/22/23 12:35*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/22/23 12:35*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/22/23 12:35*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**5.0**		0.38	0.26	ug/L		06/22/23 14:03	06/23/23 14:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*21 - 120*	*06/22/23 14:03*	*06/23/23 14:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*116*		*58 - 135*	*06/22/23 14:03*	*06/23/23 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.2**		0.20	0.082	mg/L			06/21/23 00:01	2
Nitrate as N	ND		0.20	0.039	mg/L			06/21/23 00:01	2
Fluoride	**0.48**		0.20	0.092	mg/L			06/21/23 00:01	2
Sulfate	**190**		2.0	0.47	mg/L			06/21/23 00:01	2

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		20	7.2	mg/L			06/21/23 03:24	20

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: MW-13R
Date Collected: 06/20/23 09:32
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-2
Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.80		0.50	0.0039	mg/L		06/21/23 06:54	06/22/23 10:18	1
Calcium	94		2.0	0.028	mg/L		06/21/23 06:54	06/22/23 10:18	1
Iron	0.059	J B	0.50	0.013	mg/L		06/21/23 06:54	06/22/23 10:18	1
Magnesium	120		0.50	0.048	mg/L		06/21/23 06:54	06/22/23 10:18	1
Manganese	0.0029	J	0.050	0.0013	mg/L		06/21/23 06:54	06/22/23 10:18	1
Potassium	30		2.0	0.58	mg/L		06/21/23 06:54	06/22/23 10:18	1
Sodium	170		2.0	0.31	mg/L		06/21/23 06:54	06/22/23 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	9.6		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:24	1
Chemical Oxygen Demand (EPA 410.4)	520		100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	810		5.0	2.2	mg/L			07/03/23 15:04	1
Bicarbonate (as CaCO3) (SM 2320B)	690		5.0	2.2	mg/L			07/03/23 15:04	1
Total Dissolved Solids (SM 2540C)	1300		20	17	mg/L			06/22/23 15:22	1
Carbon dioxide (SM 4500 CO2 D)	700		1.0	0.59	mg/L			07/03/23 15:04	1
Sulfide (SM 4500 S2 D)	280		25	8.3	mg/L			06/22/23 13:15	500
Carbon, Total Organic (SM 5310D)	23		10	5.3	mg/L			06/23/23 15:25	20

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: MW-5
Lab Sample ID: 570-142307-3
Date Collected: 06/20/23 08:15
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/23/23 13:13	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/23/23 13:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/23/23 13:13	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/23/23 13:13	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/23/23 13:13	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/23/23 13:13	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/23/23 13:13	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/23/23 13:13	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/23/23 13:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/23/23 13:13	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/23/23 13:13	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/23/23 13:13	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/23/23 13:13	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/23/23 13:13	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/23/23 13:13	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/23/23 13:13	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/23/23 13:13	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/23/23 13:13	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/23/23 13:13	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/23/23 13:13	1
2-Hexanone	ND		6.0	2.0	ug/L			06/23/23 13:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/23/23 13:13	1
Acetone	ND		8.0	3.6	ug/L			06/23/23 13:13	1
Acrolein	ND		4.0	3.6	ug/L			06/23/23 13:13	1
Allyl chloride	ND		2.0	0.47	ug/L			06/23/23 13:13	1
Benzene	ND		0.50	0.14	ug/L			06/23/23 13:13	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/23/23 13:13	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/23/23 13:13	1
Bromoform	ND		0.50	0.28	ug/L			06/23/23 13:13	1
Bromomethane	ND		2.0	1.9	ug/L			06/23/23 13:13	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/23/23 13:13	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/23/23 13:13	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/23/23 13:13	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/23/23 13:13	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/23/23 13:13	1
Chloroethane	ND		0.50	0.38	ug/L			06/23/23 13:13	1
Chloroform	ND		0.50	0.17	ug/L			06/23/23 13:13	1
Chloromethane	ND		1.0	0.65	ug/L			06/23/23 13:13	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/23/23 13:13	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/23/23 13:13	1
Dibromomethane	ND		0.50	0.16	ug/L			06/23/23 13:13	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/23/23 13:13	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/23/23 13:13	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/23/23 13:13	1
Iodomethane	ND		25	8.7	ug/L			06/23/23 13:13	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/23/23 13:13	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/23/23 13:13	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/23/23 13:13	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/23/23 13:13	1

Client Sample ID: MW-5
Date Collected: 06/20/23 08:15
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-3
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/23/23 13:13	1
o-Xylene	ND		0.50	0.18	ug/L			06/23/23 13:13	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/23/23 13:13	1
Propionitrile	ND		5.0	3.1	ug/L			06/23/23 13:13	1
Styrene	ND		0.50	0.27	ug/L			06/23/23 13:13	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/23/23 13:13	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/23/23 13:13	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/23/23 13:13	1
t-Butanol	ND		5.0	3.1	ug/L			06/23/23 13:13	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/23/23 13:13	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/23/23 13:13	1
Toluene	ND		0.50	0.14	ug/L			06/23/23 13:13	1
Trichloroethene	ND		0.50	0.15	ug/L			06/23/23 13:13	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/23/23 13:13	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/23/23 13:13	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/23/23 13:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/23/23 13:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*		*06/23/23 13:13*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 120*		*06/23/23 13:13*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*06/23/23 13:13*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/23/23 13:13*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/26/23 08:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/26/23 08:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 132*		*06/26/23 08:58*	*1*
4-Bromofluorobenzene (Surr)	*89*		*76 - 120*		*06/26/23 08:58*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*06/26/23 08:58*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/26/23 08:58*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.3**		0.38	0.26	ug/L		06/22/23 14:03	06/23/23 14:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*21 - 120*	*06/22/23 14:03*	*06/23/23 14:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*133*		*58 - 135*	*06/22/23 14:03*	*06/23/23 14:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.87**		0.20	0.082	mg/L			06/21/23 00:18	2

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: MW-5
Lab Sample ID: 570-142307-3
Date Collected: 06/20/23 08:15
Matrix: Water
Date Received: 06/20/23 19:00

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.071	J	0.20	0.039	mg/L			06/21/23 00:18	2
Fluoride	1.7		0.20	0.092	mg/L			06/21/23 00:18	2

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		20	7.2	mg/L			06/21/23 03:41	20
Sulfate	1400		20	4.7	mg/L			06/21/23 03:41	20

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0		0.50	0.0039	mg/L		06/21/23 06:54	06/22/23 10:21	1
Calcium	350		2.0	0.028	mg/L		06/21/23 06:54	06/22/23 10:21	1
Iron	25	B	0.50	0.013	mg/L		06/21/23 06:54	06/22/23 10:21	1
Magnesium	150		0.50	0.048	mg/L		06/21/23 06:54	06/22/23 10:21	1
Manganese	3.5		0.050	0.0013	mg/L		06/21/23 06:54	06/22/23 10:21	1
Potassium	19		2.0	0.58	mg/L		06/21/23 06:54	06/22/23 10:21	1
Sodium	250		2.0	0.31	mg/L		06/21/23 06:54	06/22/23 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	2.9		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:25	1
Chemical Oxygen Demand (EPA 410.4)	47	J	100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	500		5.0	2.2	mg/L			07/03/23 15:04	1
Bicarbonate (as CaCO3) (SM 2320B)	500		5.0	2.2	mg/L			07/03/23 15:04	1
Total Dissolved Solids (SM 2540C)	2900		20	17	mg/L			06/22/23 15:22	1
Carbon dioxide (SM 4500 CO2 D)	450		1.0	0.59	mg/L			07/03/23 15:04	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.017	mg/L			06/22/23 13:15	1
Carbon, Total Organic (SM 5310D)	12		10	5.3	mg/L			06/23/23 16:03	20

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: MW-1
Lab Sample ID: 570-142307-4
Date Collected: 06/20/23 09:30
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/23/23 13:38	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/23/23 13:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/23/23 13:38	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/23/23 13:38	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/23/23 13:38	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/23/23 13:38	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/23/23 13:38	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/23/23 13:38	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/23/23 13:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/23/23 13:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/23/23 13:38	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/23/23 13:38	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/23/23 13:38	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/23/23 13:38	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/23/23 13:38	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/23/23 13:38	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/23/23 13:38	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/23/23 13:38	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/23/23 13:38	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/23/23 13:38	1
2-Hexanone	ND		6.0	2.0	ug/L			06/23/23 13:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/23/23 13:38	1
Acetone	ND		8.0	3.6	ug/L			06/23/23 13:38	1
Acrolein	ND		4.0	3.6	ug/L			06/23/23 13:38	1
Allyl chloride	ND		2.0	0.47	ug/L			06/23/23 13:38	1
Benzene	ND		0.50	0.14	ug/L			06/23/23 13:38	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/23/23 13:38	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/23/23 13:38	1
Bromoform	ND		0.50	0.28	ug/L			06/23/23 13:38	1
Bromomethane	ND		2.0	1.9	ug/L			06/23/23 13:38	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/23/23 13:38	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/23/23 13:38	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/23/23 13:38	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/23/23 13:38	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/23/23 13:38	1
Chloroethane	ND		0.50	0.38	ug/L			06/23/23 13:38	1
Chloroform	ND		0.50	0.17	ug/L			06/23/23 13:38	1
Chloromethane	ND		1.0	0.65	ug/L			06/23/23 13:38	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/23/23 13:38	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/23/23 13:38	1
Dibromomethane	ND		0.50	0.16	ug/L			06/23/23 13:38	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/23/23 13:38	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/23/23 13:38	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/23/23 13:38	1
Iodomethane	ND		25	8.7	ug/L			06/23/23 13:38	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/23/23 13:38	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/23/23 13:38	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/23/23 13:38	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/23/23 13:38	1

Client Sample ID: MW-1
Date Collected: 06/20/23 09:30
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/23/23 13:38	1
o-Xylene	ND		0.50	0.18	ug/L			06/23/23 13:38	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/23/23 13:38	1
Propionitrile	ND		5.0	3.1	ug/L			06/23/23 13:38	1
Styrene	ND		0.50	0.27	ug/L			06/23/23 13:38	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/23/23 13:38	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/23/23 13:38	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/23/23 13:38	1
t-Butanol	ND		5.0	3.1	ug/L			06/23/23 13:38	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/23/23 13:38	1
Tetrahydrofuran	**2.1**		2.0	1.3	ug/L			06/23/23 13:38	1
Toluene	ND		0.50	0.14	ug/L			06/23/23 13:38	1
Trichloroethene	ND		0.50	0.15	ug/L			06/23/23 13:38	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/23/23 13:38	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/23/23 13:38	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/23/23 13:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/23/23 13:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 132*		*06/23/23 13:38*	*1*
4-Bromofluorobenzene (Surr)	*93*		*76 - 120*		*06/23/23 13:38*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*06/23/23 13:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/23/23 13:38*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/26/23 09:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/26/23 09:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*64 - 132*		*06/26/23 09:24*	*1*
4-Bromofluorobenzene (Surr)	*90*		*76 - 120*		*06/26/23 09:24*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*06/26/23 09:24*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/26/23 09:24*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**12**		0.38	0.26	ug/L		06/22/23 14:03	06/23/23 14:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*21 - 120*	*06/22/23 14:03*	*06/23/23 14:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*129*		*58 - 135*	*06/22/23 14:03*	*06/23/23 14:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**3.9**		0.20	0.082	mg/L			06/21/23 00:35	2

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: MW-1
Lab Sample ID: 570-142307-4
Date Collected: 06/20/23 09:30
Matrix: Water
Date Received: 06/20/23 19:00

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.20	0.039	mg/L			06/21/23 00:35	2
Fluoride	**2.3**		0.20	0.092	mg/L			06/21/23 00:35	2

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		20	7.2	mg/L			06/21/23 03:58	20
Sulfate	**1900**		20	4.7	mg/L			06/21/23 03:58	20

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.98**		0.50	0.0039	mg/L		06/21/23 06:54	06/22/23 10:23	1
Calcium	**490**		2.0	0.028	mg/L		06/21/23 06:54	06/22/23 10:23	1
Iron	**50**	**B**	0.50	0.013	mg/L		06/21/23 06:54	06/22/23 10:23	1
Magnesium	**220**		0.50	0.048	mg/L		06/21/23 06:54	06/22/23 10:23	1
Manganese	**2.7**		0.050	0.0013	mg/L		06/21/23 06:54	06/22/23 10:23	1
Potassium	**35**		2.0	0.58	mg/L		06/21/23 06:54	06/22/23 10:23	1
Sodium	**250**		2.0	0.31	mg/L		06/21/23 06:54	06/22/23 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**4.5**		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:27	1
Chemical Oxygen Demand (EPA 410.4)	**100**		100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**460**		5.0	2.2	mg/L			07/03/23 15:04	1
Bicarbonate (as CaCO3) (SM 2320B)	**460**		5.0	2.2	mg/L			07/03/23 15:04	1
Total Dissolved Solids (SM 2540C)	**3600**		25	22	mg/L			06/22/23 15:22	1
Carbon dioxide (SM 4500 CO2 D)	**410**		1.0	0.59	mg/L			07/03/23 15:04	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.017	mg/L			06/22/23 13:15	1
Carbon, Total Organic (SM 5310D)	**24**		10	5.3	mg/L			06/23/23 16:26	20

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: DW-5
Lab Sample ID: 570-142307-5
Date Collected: 06/20/23 10:40
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/22/23 13:50	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/22/23 13:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/22/23 13:50	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/22/23 13:50	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/22/23 13:50	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/22/23 13:50	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/22/23 13:50	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/22/23 13:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/22/23 13:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/22/23 13:50	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/22/23 13:50	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/22/23 13:50	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/22/23 13:50	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/22/23 13:50	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/22/23 13:50	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/22/23 13:50	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/22/23 13:50	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/22/23 13:50	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/22/23 13:50	1
2-Chloroethyl vinyl ether	ND	*1	5.0	4.5	ug/L			06/22/23 13:50	1
2-Hexanone	ND		6.0	2.0	ug/L			06/22/23 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/22/23 13:50	1
Acetone	ND		8.0	3.6	ug/L			06/22/23 13:50	1
Acrolein	ND		4.0	3.6	ug/L			06/22/23 13:50	1
Allyl chloride	ND		2.0	0.47	ug/L			06/22/23 13:50	1
Benzene	ND		0.50	0.14	ug/L			06/22/23 13:50	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/22/23 13:50	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/22/23 13:50	1
Bromoform	ND		0.50	0.28	ug/L			06/22/23 13:50	1
Bromomethane	ND		2.0	1.9	ug/L			06/22/23 13:50	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/22/23 13:50	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/22/23 13:50	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/22/23 13:50	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/22/23 13:50	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/22/23 13:50	1
Chloroethane	ND		0.50	0.38	ug/L			06/22/23 13:50	1
Chloroform	ND		0.50	0.17	ug/L			06/22/23 13:50	1
Chloromethane	ND		1.0	0.65	ug/L			06/22/23 13:50	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/22/23 13:50	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/22/23 13:50	1
Dibromomethane	ND		0.50	0.16	ug/L			06/22/23 13:50	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/22/23 13:50	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/22/23 13:50	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/22/23 13:50	1
Iodomethane	ND		25	8.7	ug/L			06/22/23 13:50	1
Isobutyl alcohol	**100**		50	35	ug/L			06/22/23 13:50	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/22/23 13:50	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/22/23 13:50	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/22/23 13:50	1

Client Sample ID: DW-5
Date Collected: 06/20/23 10:40
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/22/23 13:50	1
Naphthalene	**0.72**	**J**	1.0	0.55	ug/L			06/22/23 13:50	1
o-Xylene	ND		0.50	0.18	ug/L			06/22/23 13:50	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/22/23 13:50	1
Propionitrile	ND		5.0	3.1	ug/L			06/22/23 13:50	1
Styrene	ND		0.50	0.27	ug/L			06/22/23 13:50	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/22/23 13:50	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/22/23 13:50	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/22/23 13:50	1
t-Butanol	**3.7**	**J**	5.0	3.1	ug/L			06/22/23 13:50	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/22/23 13:50	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/22/23 13:50	1
Toluene	**0.30**	**J**	0.50	0.14	ug/L			06/22/23 13:50	1
Trichloroethene	ND		0.50	0.15	ug/L			06/22/23 13:50	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/22/23 13:50	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/22/23 13:50	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/22/23 13:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzene, tert-butyl-	*4.6*	*T J N*	*ug/L*		*11.84*	*98-06-6*		*06/22/23 13:50*	*1*
Benzene, (2-methylpropyl)-	*7.0*	*T J N*	*ug/L*		*12.01*	*538-93-2*		*06/22/23 13:50*	*1*
Ethanone, 1-(3,4-dimethylphenyl)-	*4.7*	*T J N*	*ug/L*		*12.89*	*3637-01-2*		*06/22/23 13:50*	*1*
1H-Indene, 2,3-dihydro-1,6-dimethyl-	*7.4*	*T J N*	*ug/L*		*13.03*	*17059-48-2*		*06/22/23 13:50*	*1*
Benzene, 1,2,4,5-tetramethyl-	*28*	*T J N*	*ug/L*		*13.10*	*95-93-2*		*06/22/23 13:50*	*1*
Benzene, 1,3-diethyl-5-methyl-	*4.7*	*T J N*	*ug/L*		*13.48*	*2050-24-0*		*06/22/23 13:50*	*1*
Benzene, pentamethyl-	*5.8*	*T J N*	*ug/L*		*13.88*	*700-12-9*		*06/22/23 13:50*	*1*
1H-Indene, 2,3-dihydro-1,1,5-trimethyl-	*4.6*	*T J N*	*ug/L*		*13.98*	*40650-41-7*		*06/22/23 13:50*	*1*
1H-Indene, 2,3-dihydro-4,7-dimethyl-	*9.0*	*T J N*	*ug/L*		*14.54*	*6682-71-9*		*06/22/23 13:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 132*		*06/22/23 13:50*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 120*		*06/22/23 13:50*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*06/22/23 13:50*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/22/23 13:50*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.28	ug/L		06/22/23 14:03	06/23/23 14:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*21 - 120*	*06/22/23 14:03*	*06/23/23 14:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*127*		*58 - 135*	*06/22/23 14:03*	*06/23/23 14:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.12**	**J**	0.20	0.082	mg/L			06/21/23 00:52	2
Nitrate as N	ND		0.20	0.039	mg/L			06/21/23 00:52	2
Fluoride	**3.5**		0.20	0.092	mg/L			06/21/23 00:52	2
Sulfate	**1.2**	**J**	2.0	0.47	mg/L			06/21/23 00:52	2

Client Sample Results

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: DW-5
Lab Sample ID: 570-142307-5
Date Collected: 06/20/23 10:40
Matrix: Water
Date Received: 06/20/23 19:00

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19	J	20	7.2	mg/L			06/21/23 04:14	20

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.8		0.50	0.0039	mg/L		06/21/23 06:54	06/22/23 10:26	1
Calcium	5.7		2.0	0.028	mg/L		06/21/23 06:54	06/22/23 10:26	1
Iron	0.16	J B	0.50	0.013	mg/L		06/21/23 06:54	06/22/23 10:26	1
Magnesium	0.95		0.50	0.048	mg/L		06/21/23 06:54	06/22/23 10:26	1
Manganese	0.097		0.050	0.0013	mg/L		06/21/23 06:54	06/22/23 10:26	1
Potassium	0.91	J	2.0	0.58	mg/L		06/21/23 06:54	06/22/23 10:26	1
Sodium	440		2.0	0.31	mg/L		06/21/23 06:54	06/22/23 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	0.25		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:28	1
Chemical Oxygen Demand (EPA 410.4)	24	J	100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	960		5.0	2.2	mg/L			07/03/23 15:04	1
Bicarbonate (as CaCO3) (SM 2320B)	930		5.0	2.2	mg/L			07/03/23 15:04	1
Total Dissolved Solids (SM 2540C)	1100		20	17	mg/L			06/22/23 17:31	1
Carbon dioxide (SM 4500 CO2 D)	840		1.0	0.59	mg/L			07/03/23 15:04	1
Sulfide (SM 4500 S2 D)	0.035	J	0.050	0.017	mg/L			06/22/23 13:16	1
Carbon, Total Organic (SM 5310D)	7.5		2.0	1.1	mg/L			06/23/23 16:52	4

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: DW-3
Lab Sample ID: 570-142307-6
Date Collected: 06/20/23 12:05
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/22/23 14:14	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/22/23 14:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/22/23 14:14	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/22/23 14:14	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/22/23 14:14	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/22/23 14:14	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/22/23 14:14	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/22/23 14:14	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/22/23 14:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/22/23 14:14	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/22/23 14:14	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/22/23 14:14	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/22/23 14:14	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/22/23 14:14	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/22/23 14:14	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/22/23 14:14	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/22/23 14:14	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/22/23 14:14	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/22/23 14:14	1
2-Chloroethyl vinyl ether	ND	*1	5.0	4.5	ug/L			06/22/23 14:14	1
2-Hexanone	ND		6.0	2.0	ug/L			06/22/23 14:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/22/23 14:14	1
Acetone	ND		8.0	3.6	ug/L			06/22/23 14:14	1
Acrolein	ND		4.0	3.6	ug/L			06/22/23 14:14	1
Allyl chloride	ND		2.0	0.47	ug/L			06/22/23 14:14	1
Benzene	ND		0.50	0.14	ug/L			06/22/23 14:14	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/22/23 14:14	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/22/23 14:14	1
Bromoform	ND		0.50	0.28	ug/L			06/22/23 14:14	1
Bromomethane	ND		2.0	1.9	ug/L			06/22/23 14:14	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/22/23 14:14	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/22/23 14:14	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/22/23 14:14	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/22/23 14:14	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/22/23 14:14	1
Chloroethane	ND		0.50	0.38	ug/L			06/22/23 14:14	1
Chloroform	ND		0.50	0.17	ug/L			06/22/23 14:14	1
Chloromethane	ND		1.0	0.65	ug/L			06/22/23 14:14	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/22/23 14:14	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/22/23 14:14	1
Dibromomethane	ND		0.50	0.16	ug/L			06/22/23 14:14	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/22/23 14:14	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/22/23 14:14	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/22/23 14:14	1
Iodomethane	ND		25	8.7	ug/L			06/22/23 14:14	1
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 14:14	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/22/23 14:14	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/22/23 14:14	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/22/23 14:14	1

Client Sample ID: DW-3
Date Collected: 06/20/23 12:05
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/22/23 14:14	1
Naphthalene	ND		1.0	0.55	ug/L			06/22/23 14:14	1
o-Xylene	ND		0.50	0.18	ug/L			06/22/23 14:14	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/22/23 14:14	1
Propionitrile	ND		5.0	3.1	ug/L			06/22/23 14:14	1
Styrene	ND		0.50	0.27	ug/L			06/22/23 14:14	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/22/23 14:14	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/22/23 14:14	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/22/23 14:14	1
t-Butanol	ND		5.0	3.1	ug/L			06/22/23 14:14	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/22/23 14:14	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/22/23 14:14	1
Toluene	ND		0.50	0.14	ug/L			06/22/23 14:14	1
Trichloroethene	ND		0.50	0.15	ug/L			06/22/23 14:14	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/22/23 14:14	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/22/23 14:14	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/22/23 14:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Pyrazine, 2,5-dimethyl-	*110*	*T J N*	*ug/L*		*1.74*	*123-32-0*		*06/22/23 14:14*	*1*
Sulfur dioxide	*380*	*T J N*	*ug/L*		*2.11*	*7446-09-5*		*06/22/23 14:14*	*1*
Aminomethanesulfonic acid	*32*	*T J N*	*ug/L*		*2.27*	*13881-91-9*		*06/22/23 14:14*	*1*
Cysteic acid	*27*	*T J N*	*ug/L*		*2.31*	*1000131-23-1*		*06/22/23 14:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*64 - 132*		*06/22/23 14:14*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 120*		*06/22/23 14:14*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*06/22/23 14:14*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/22/23 14:14*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.39	0.27	ug/L		06/22/23 14:03	06/23/23 15:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*25*		*21 - 120*	*06/22/23 14:03*	*06/23/23 15:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*125*		*58 - 135*	*06/22/23 14:03*	*06/23/23 15:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	0.041	mg/L			06/21/23 01:09	1
Nitrate as N	ND		0.10	0.020	mg/L			06/21/23 01:09	1
Chloride	**13**		1.0	0.36	mg/L			06/21/23 01:09	1
Fluoride	**0.29**		0.10	0.046	mg/L			06/21/23 01:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1100**		20	4.7	mg/L			06/21/23 04:31	20

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: DW-3
Date Collected: 06/20/23 12:05
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-6
Matrix: Water

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.053	J	0.50	0.0039	mg/L		06/21/23 06:54	06/22/23 10:28	1
Calcium	310		2.0	0.028	mg/L		06/21/23 06:54	06/22/23 10:28	1
Iron	0.60	B	0.50	0.013	mg/L		06/21/23 06:54	06/22/23 10:28	1
Magnesium	110		0.50	0.048	mg/L		06/21/23 06:54	06/22/23 10:28	1
Manganese	0.058		0.050	0.0013	mg/L		06/21/23 06:54	06/22/23 10:28	1
Potassium	8.9		2.0	0.58	mg/L		06/21/23 06:54	06/22/23 10:28	1
Sodium	69		2.0	0.31	mg/L		06/21/23 06:54	06/22/23 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	0.56		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:30	1
Chemical Oxygen Demand (EPA 410.4)	ND		100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	150		5.0	2.2	mg/L			07/03/23 15:04	1
Bicarbonate (as CaCO3) (SM 2320B)	150		5.0	2.2	mg/L			07/03/23 15:04	1
Total Dissolved Solids (SM 2540C)	1900		20	17	mg/L			06/22/23 17:31	1
Carbon dioxide (SM 4500 CO2 D)	130		1.0	0.59	mg/L			07/03/23 15:04	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.017	mg/L			06/22/23 13:16	1
Carbon, Total Organic (SM 5310D)	ND		0.50	0.26	mg/L			06/23/23 17:30	1

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: Combined Subdrain
Lab Sample ID: 570-142307-7
Date Collected: 06/20/23 10:50
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/23/23 14:03	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/23/23 14:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/23/23 14:03	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/23/23 14:03	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/23/23 14:03	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/23/23 14:03	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/23/23 14:03	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/23/23 14:03	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/23/23 14:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/23/23 14:03	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/23/23 14:03	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/23/23 14:03	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/23/23 14:03	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/23/23 14:03	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/23/23 14:03	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/23/23 14:03	1
1,4-Dichlorobenzene	**6.1**		0.50	0.11	ug/L			06/23/23 14:03	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/23/23 14:03	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/23/23 14:03	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/23/23 14:03	1
2-Hexanone	ND		6.0	2.0	ug/L			06/23/23 14:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/23/23 14:03	1
Acetone	ND		8.0	3.6	ug/L			06/23/23 14:03	1
Acrolein	ND		4.0	3.6	ug/L			06/23/23 14:03	1
Allyl chloride	ND		2.0	0.47	ug/L			06/23/23 14:03	1
Benzene	**1.3**		0.50	0.14	ug/L			06/23/23 14:03	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/23/23 14:03	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/23/23 14:03	1
Bromoform	ND		0.50	0.28	ug/L			06/23/23 14:03	1
Bromomethane	ND		2.0	1.9	ug/L			06/23/23 14:03	1
cis-1,2-Dichloroethene	**1.2**		0.50	0.16	ug/L			06/23/23 14:03	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/23/23 14:03	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/23/23 14:03	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/23/23 14:03	1
Chlorobenzene	**0.39**	**J**	0.50	0.12	ug/L			06/23/23 14:03	1
Chloroethane	ND		0.50	0.38	ug/L			06/23/23 14:03	1
Chloroform	ND		0.50	0.17	ug/L			06/23/23 14:03	1
Chloromethane	ND		1.0	0.65	ug/L			06/23/23 14:03	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/23/23 14:03	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/23/23 14:03	1
Dibromomethane	ND		0.50	0.16	ug/L			06/23/23 14:03	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/23/23 14:03	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/23/23 14:03	1
Ethylbenzene	**0.21**	**J**	0.50	0.16	ug/L			06/23/23 14:03	1
Iodomethane	ND		25	8.7	ug/L			06/23/23 14:03	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/23/23 14:03	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/23/23 14:03	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/23/23 14:03	1
Methyl tert-butyl ether	**0.69**		0.50	0.14	ug/L			06/23/23 14:03	1

Client Sample ID: Combined Subdrain
Lab Sample ID: 570-142307-7

Date Collected: 06/20/23 10:50
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/23/23 14:03	1
o-Xylene	ND		0.50	0.18	ug/L			06/23/23 14:03	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/23/23 14:03	1
Propionitrile	ND		5.0	3.1	ug/L			06/23/23 14:03	1
Styrene	ND		0.50	0.27	ug/L			06/23/23 14:03	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/23/23 14:03	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/23/23 14:03	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/23/23 14:03	1
t-Butanol	ND		5.0	3.1	ug/L			06/23/23 14:03	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/23/23 14:03	1
Tetrahydrofuran	**1.4**	**J**	2.0	1.3	ug/L			06/23/23 14:03	1
Toluene	ND		0.50	0.14	ug/L			06/23/23 14:03	1
Trichloroethene	**0.18**	**J**	0.50	0.15	ug/L			06/23/23 14:03	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/23/23 14:03	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/23/23 14:03	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/23/23 14:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzene, 1-chloro-4-(trifluoromethyl)-	*2.4*	*T J N*	*ug/L*		*8.68*	*98-56-6*		*06/23/23 14:03*	*1*
D-Limonene	*1.3*	*T J N*	*ug/L*		*11.06*	*5989-27-5*		*06/23/23 14:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*		*06/23/23 14:03*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*		*06/23/23 14:03*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*06/23/23 14:03*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/23/23 14:03*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/26/23 09:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
D-Limonene	*4.1*	*T J N*	*ug/L*		*12.13*	*5989-27-5*		*06/26/23 09:49*	*1*
Benzene, 1-methyl-2-(1-methylethyl)-	*15*	*T J N*	*ug/L*		*12.15*	*527-84-4*		*06/26/23 09:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*64 - 132*		*06/26/23 09:49*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*		*06/26/23 09:49*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*06/26/23 09:49*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/26/23 09:49*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**5.2**		0.40	0.27	ug/L		06/22/23 14:03	06/23/23 15:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*21 - 120*	*06/22/23 14:03*	*06/23/23 15:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*121*		*58 - 135*	*06/22/23 14:03*	*06/23/23 15:29*	*1*

Client Sample ID: Combined Subdrain
Lab Sample ID: 570-142307-7

Date Collected: 06/20/23 10:50
Matrix: Water
Date Received: 06/20/23 19:00

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	1.0		0.20	0.082	mg/L			06/21/23 01:25	2
Nitrate as N	ND		0.20	0.039	mg/L			06/21/23 01:25	2
Chloride	65		2.0	0.72	mg/L			06/21/23 01:25	2
Fluoride	1.6		0.20	0.092	mg/L			06/21/23 01:25	2

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1700		40	9.5	mg/L			06/23/23 16:55	40

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.93		0.50	0.0039	mg/L		06/21/23 06:54	06/22/23 10:30	1
Calcium	440		2.0	0.028	mg/L		06/21/23 06:54	06/22/23 10:30	1
Iron	49	B	0.50	0.013	mg/L		06/21/23 06:54	06/22/23 10:30	1
Magnesium	220		0.50	0.048	mg/L		06/21/23 06:54	06/22/23 10:30	1
Manganese	8.8		0.050	0.0013	mg/L		06/21/23 06:54	06/22/23 10:30	1
Potassium	16		2.0	0.58	mg/L		06/21/23 06:54	06/22/23 10:30	1
Sodium	230		2.0	0.31	mg/L		06/21/23 06:54	06/22/23 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	3.7		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 13:31	1
Chemical Oxygen Demand (EPA 410.4)	110		100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	520		5.0	2.2	mg/L			07/03/23 15:04	1
Bicarbonate (as CaCO3) (SM 2320B)	520		5.0	2.2	mg/L			07/03/23 15:04	1
Total Dissolved Solids (SM 2540C)	3600		25	22	mg/L			06/22/23 17:31	1
Carbon dioxide (SM 4500 CO2 D)	790		1.0	0.59	mg/L			07/03/23 15:04	1
Sulfide (SM 4500 S2 D)	0.084		0.050	0.017	mg/L			06/22/23 13:16	1
Carbon, Total Organic (SM 5310D)	31		10	5.3	mg/L			06/23/23 17:53	20

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: LY-7
Lab Sample ID: 570-142307-8
Date Collected: 06/20/23 08:50
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/23/23 14:29	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/23/23 14:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/23/23 14:29	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/23/23 14:29	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/23/23 14:29	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/23/23 14:29	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/23/23 14:29	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/23/23 14:29	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/23/23 14:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/23/23 14:29	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/23/23 14:29	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/23/23 14:29	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/23/23 14:29	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/23/23 14:29	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/23/23 14:29	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/23/23 14:29	1
1,4-Dichlorobenzene	**1.8**		0.50	0.11	ug/L			06/23/23 14:29	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/23/23 14:29	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/23/23 14:29	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/23/23 14:29	1
2-Hexanone	ND		6.0	2.0	ug/L			06/23/23 14:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/23/23 14:29	1
Acetone	ND		8.0	3.6	ug/L			06/23/23 14:29	1
Acrolein	ND		4.0	3.6	ug/L			06/23/23 14:29	1
Allyl chloride	ND		2.0	0.47	ug/L			06/23/23 14:29	1
Benzene	**1.2**		0.50	0.14	ug/L			06/23/23 14:29	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/23/23 14:29	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/23/23 14:29	1
Bromoform	ND		0.50	0.28	ug/L			06/23/23 14:29	1
Bromomethane	ND		2.0	1.9	ug/L			06/23/23 14:29	1
cis-1,2-Dichloroethene	**1.3**		0.50	0.16	ug/L			06/23/23 14:29	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/23/23 14:29	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/23/23 14:29	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/23/23 14:29	1
Chlorobenzene	**0.29**	**J**	0.50	0.12	ug/L			06/23/23 14:29	1
Chloroethane	ND		0.50	0.38	ug/L			06/23/23 14:29	1
Chloroform	ND		0.50	0.17	ug/L			06/23/23 14:29	1
Chloromethane	ND		1.0	0.65	ug/L			06/23/23 14:29	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/23/23 14:29	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/23/23 14:29	1
Dibromomethane	ND		0.50	0.16	ug/L			06/23/23 14:29	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/23/23 14:29	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/23/23 14:29	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/23/23 14:29	1
Iodomethane	ND		25	8.7	ug/L			06/23/23 14:29	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/23/23 14:29	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/23/23 14:29	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/23/23 14:29	1
Methyl tert-butyl ether	**2.1**		0.50	0.14	ug/L			06/23/23 14:29	1

Client Sample ID: LY-7
Date Collected: 06/20/23 08:50
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-8
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.55	ug/L			06/23/23 14:29	1
o-Xylene	ND		0.50	0.18	ug/L			06/23/23 14:29	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/23/23 14:29	1
Propionitrile	ND		5.0	3.1	ug/L			06/23/23 14:29	1
Styrene	ND		0.50	0.27	ug/L			06/23/23 14:29	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/23/23 14:29	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/23/23 14:29	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/23/23 14:29	1
t-Butanol	ND		5.0	3.1	ug/L			06/23/23 14:29	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/23/23 14:29	1
Tetrahydrofuran	**2.5**		2.0	1.3	ug/L			06/23/23 14:29	1
Toluene	ND		0.50	0.14	ug/L			06/23/23 14:29	1
Trichloroethene	ND		0.50	0.15	ug/L			06/23/23 14:29	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/23/23 14:29	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/23/23 14:29	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/23/23 14:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzene, 1-chloro-4-(trifluoromethyl)-	*3.5*	*T J N*	*ug/L*		*8.67*	*98-56-6*		*06/23/23 14:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 132*		*06/23/23 14:29*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*		*06/23/23 14:29*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*06/23/23 14:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/23/23 14:29*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/26/23 10:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
tert-Butyldimethylsilanol	*29*	*T J N*	*ug/L*		*5.08*	*18173-64-3*		*06/26/23 10:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 132*		*06/26/23 10:14*	*1*
4-Bromofluorobenzene (Surr)	*92*		*76 - 120*		*06/26/23 10:14*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*06/26/23 10:14*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/26/23 10:14*	*1*

Method: SW846 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**18**		0.39	0.27	ug/L		06/22/23 14:03	06/23/23 15:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*21 - 120*	*06/22/23 14:03*	*06/23/23 15:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*100*		*58 - 135*	*06/22/23 14:03*	*06/23/23 15:45*	*1*

Client Sample Results

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: LY-7
Date Collected: 06/20/23 08:50
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-8
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20	0.082	mg/L			06/21/23 01:42	2
Nitrate as N	ND		0.20	0.039	mg/L			06/21/23 01:42	2
Fluoride	**0.64**		0.20	0.092	mg/L			06/21/23 01:42	2

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**490**		40	14	mg/L			06/21/23 02:16	40
Sulfate	**580**		40	9.5	mg/L			06/21/23 02:16	40

Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**6.7**		0.50	0.0039	mg/L		06/22/23 08:11	06/22/23 15:05	1
Calcium	**200**		2.0	0.028	mg/L		06/22/23 08:11	06/22/23 15:05	1
Iron	**0.30**	**J**	0.50	0.013	mg/L		06/22/23 08:11	06/22/23 15:05	1
Magnesium	**170**		0.50	0.048	mg/L		06/22/23 08:11	06/22/23 15:05	1
Manganese	**1.9**		0.050	0.0013	mg/L		06/22/23 08:11	06/22/23 15:05	1
Potassium	**37**		2.0	0.58	mg/L		06/22/23 08:11	06/22/23 15:05	1
Sodium	**1100**		10	1.5	mg/L		06/22/23 08:11	06/23/23 13:53	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N) (EPA 350.1)	**19**		0.15	0.057	mg/L		06/29/23 11:20	06/29/23 13:33	2
Chemical Oxygen Demand (EPA 410.4)	**240**		100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1
Alkalinity, Total (As CaCO3) (SM 2320B)	**2300**		5.0	2.2	mg/L			07/03/23 15:04	1
Bicarbonate (as CaCO3) (SM 2320B)	**2300**		5.0	2.2	mg/L			07/03/23 15:04	1
Total Dissolved Solids (SM 2540C)	**4300**		50	44	mg/L			06/22/23 17:31	1
Carbon dioxide (SM 4500 CO2 D)	**2100**		1.0	0.59	mg/L			07/03/23 15:04	1
Sulfide (SM 4500 S2 D)	ND	F1	0.050	0.017	mg/L			06/27/23 10:31	1
Carbon, Total Organic (SM 5310D)	**72**		50	26	mg/L			06/23/23 18:19	100

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: Field Blank
Date Collected: 06/20/23 00:00
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/22/23 11:45	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/22/23 11:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/22/23 11:45	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/22/23 11:45	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/22/23 11:45	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/22/23 11:45	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/22/23 11:45	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/22/23 11:45	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/22/23 11:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/22/23 11:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/22/23 11:45	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/22/23 11:45	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/22/23 11:45	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/22/23 11:45	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/22/23 11:45	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/22/23 11:45	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/22/23 11:45	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/22/23 11:45	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/22/23 11:45	1
2-Chloroethyl vinyl ether	ND	*1	5.0	4.5	ug/L			06/22/23 11:45	1
2-Hexanone	ND		6.0	2.0	ug/L			06/22/23 11:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/22/23 11:45	1
Acetone	ND		8.0	3.6	ug/L			06/22/23 11:45	1
Acrolein	ND		4.0	3.6	ug/L			06/22/23 11:45	1
Allyl chloride	ND		2.0	0.47	ug/L			06/22/23 11:45	1
Benzene	ND		0.50	0.14	ug/L			06/22/23 11:45	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/22/23 11:45	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/22/23 11:45	1
Bromoform	ND		0.50	0.28	ug/L			06/22/23 11:45	1
Bromomethane	ND		2.0	1.9	ug/L			06/22/23 11:45	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/22/23 11:45	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/22/23 11:45	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/22/23 11:45	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/22/23 11:45	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/22/23 11:45	1
Chloroethane	ND		0.50	0.38	ug/L			06/22/23 11:45	1
Chloroform	ND		0.50	0.17	ug/L			06/22/23 11:45	1
Chloromethane	ND		1.0	0.65	ug/L			06/22/23 11:45	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/22/23 11:45	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/22/23 11:45	1
Dibromomethane	ND		0.50	0.16	ug/L			06/22/23 11:45	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/22/23 11:45	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/22/23 11:45	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/22/23 11:45	1
Iodomethane	ND		25	8.7	ug/L			06/22/23 11:45	1
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 11:45	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/22/23 11:45	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/22/23 11:45	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/22/23 11:45	1

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: Field Blank
Lab Sample ID: 570-142307-9
Date Collected: 06/20/23 00:00
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/22/23 11:45	1
Naphthalene	ND		1.0	0.55	ug/L			06/22/23 11:45	1
o-Xylene	ND		0.50	0.18	ug/L			06/22/23 11:45	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/22/23 11:45	1
Propionitrile	ND		5.0	3.1	ug/L			06/22/23 11:45	1
Styrene	ND		0.50	0.27	ug/L			06/22/23 11:45	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/22/23 11:45	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/22/23 11:45	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/22/23 11:45	1
t-Butanol	ND		5.0	3.1	ug/L			06/22/23 11:45	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/22/23 11:45	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/22/23 11:45	1
Toluene	ND		0.50	0.14	ug/L			06/22/23 11:45	1
Trichloroethene	ND		0.50	0.15	ug/L			06/22/23 11:45	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/22/23 11:45	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/22/23 11:45	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/22/23 11:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclopentane	*40*	*T J N*	*ug/L*		*4.13*	*287-92-3*		*06/22/23 11:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 132*		*06/22/23 11:45*	*1*
4-Bromofluorobenzene (Surr)	*92*		*76 - 120*		*06/22/23 11:45*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*06/22/23 11:45*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/22/23 11:45*	*1*

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: Trip Blank
Lab Sample ID: 570-142307-10
Date Collected: 06/20/23 00:00
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/22/23 11:20	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/22/23 11:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/22/23 11:20	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/22/23 11:20	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/22/23 11:20	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/22/23 11:20	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/22/23 11:20	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/22/23 11:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/22/23 11:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/22/23 11:20	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/22/23 11:20	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/22/23 11:20	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/22/23 11:20	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/22/23 11:20	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/22/23 11:20	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/22/23 11:20	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/22/23 11:20	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/22/23 11:20	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/22/23 11:20	1
2-Chloroethyl vinyl ether	ND	*1	5.0	4.5	ug/L			06/22/23 11:20	1
2-Hexanone	ND		6.0	2.0	ug/L			06/22/23 11:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/22/23 11:20	1
Acetone	ND		8.0	3.6	ug/L			06/22/23 11:20	1
Acrolein	ND		4.0	3.6	ug/L			06/22/23 11:20	1
Allyl chloride	ND		2.0	0.47	ug/L			06/22/23 11:20	1
Benzene	ND		0.50	0.14	ug/L			06/22/23 11:20	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/22/23 11:20	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/22/23 11:20	1
Bromoform	ND		0.50	0.28	ug/L			06/22/23 11:20	1
Bromomethane	ND		2.0	1.9	ug/L			06/22/23 11:20	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/22/23 11:20	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/22/23 11:20	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/22/23 11:20	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/22/23 11:20	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/22/23 11:20	1
Chloroethane	ND		0.50	0.38	ug/L			06/22/23 11:20	1
Chloroform	ND		0.50	0.17	ug/L			06/22/23 11:20	1
Chloromethane	ND		1.0	0.65	ug/L			06/22/23 11:20	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/22/23 11:20	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/22/23 11:20	1
Dibromomethane	ND		0.50	0.16	ug/L			06/22/23 11:20	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/22/23 11:20	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/22/23 11:20	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/22/23 11:20	1
Iodomethane	ND		25	8.7	ug/L			06/22/23 11:20	1
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 11:20	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/22/23 11:20	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/22/23 11:20	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/22/23 11:20	1

Client Sample ID: Trip Blank
Lab Sample ID: 570-142307-10

Date Collected: 06/20/23 00:00
Matrix: Water
Date Received: 06/20/23 19:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/22/23 11:20	1
Naphthalene	ND		1.0	0.55	ug/L			06/22/23 11:20	1
o-Xylene	ND		0.50	0.18	ug/L			06/22/23 11:20	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/22/23 11:20	1
Propionitrile	ND		5.0	3.1	ug/L			06/22/23 11:20	1
Styrene	ND		0.50	0.27	ug/L			06/22/23 11:20	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/22/23 11:20	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/22/23 11:20	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/22/23 11:20	1
t-Butanol	ND		5.0	3.1	ug/L			06/22/23 11:20	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/22/23 11:20	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/22/23 11:20	1
Toluene	ND		0.50	0.14	ug/L			06/22/23 11:20	1
Trichloroethene	ND		0.50	0.15	ug/L			06/22/23 11:20	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/22/23 11:20	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/22/23 11:20	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/22/23 11:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Benzeneethanamine, 2-fluoro-.beta.,5-dihydroxy-N-methyl-	*13*	*T J N*	*ug/L*		*3.80*	*103439-07-2*		*06/22/23 11:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*64 - 132*		*06/22/23 11:20*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*06/22/23 11:20*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*06/22/23 11:20*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/22/23 11:20*	*1*

Surrogate Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Job ID: 570-142307-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-132)	(76-120)	(80-120)	(80-120)
570-142307-1	PZ-4	98	90	101	97
570-142307-2	MW-13R	95	96	101	98
570-142307-3	MW-5	103	95	98	99
570-142307-3 - RA	MW-5	92	89	98	95
570-142307-4	MW-1	102	93	98	99
570-142307-4 - RA	MW-1	93	90	97	97
570-142307-5	DW-5	100	102	100	100
570-142307-6	DW-3	93	94	98	97
570-142307-7	Combined Subdrain	103	96	99	99
570-142307-7 - RA	Combined Subdrain	93	96	99	95
570-142307-8	LY-7	102	96	98	100
570-142307-8 - RA	LY-7	92	92	98	95
570-142307-9	Field Blank	95	92	100	97
570-142307-10	Trip Blank	93	91	98	97
LCS 570-339518/4	Lab Control Sample	89	99	97	99
LCS 570-339901/4	Lab Control Sample	102	98	97	101
LCS 570-340348/4	Lab Control Sample	85	99	94	96
LCSD 570-339518/5	Lab Control Sample Dup	92	98	98	95
LCSD 570-339901/5	Lab Control Sample Dup	103	99	97	99
LCSD 570-340348/5	Lab Control Sample Dup	84	97	95	96
MB 570-339518/7	Method Blank	98	92	101	98
MB 570-339901/7	Method Blank	101	91	99	99
MB 570-340348/7	Method Blank	89	90	101	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		NBZ
Lab Sample ID	Client Sample ID	(58-135)
570-142307-1	PZ-4	74
570-142307-2	MW-13R	116
570-142307-3	MW-5	133
570-142307-4	MW-1	129
570-142307-5	DW-5	127
570-142307-6	DW-3	125
570-142307-7	Combined Subdrain	121
570-142307-8	LY-7	100
LCS 570-339721/2-A	Lab Control Sample	84
LCSD 570-339721/3-A	Lab Control Sample Dup	82
MB 570-339721/1-A	Method Blank	92

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

Isotope Dilution Summary

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DXE (21-120)
570-142307-1	PZ-4	30
570-142307-2	MW-13R	31
570-142307-3	MW-5	30
570-142307-4	MW-1	27
570-142307-5	DW-5	30
570-142307-6	DW-3	25
570-142307-7	Combined Subdrain	30
570-142307-8	LY-7	30
LCS 570-339721/2-A	Lab Control Sample	35
LCSD 570-339721/3-A	Lab Control Sample Dup	30
MB 570-339721/1-A	Method Blank	40

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-339518/7
Matrix: Water
Analysis Batch: 339518

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/22/23 10:55	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/22/23 10:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/22/23 10:55	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/22/23 10:55	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/22/23 10:55	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/22/23 10:55	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/22/23 10:55	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/22/23 10:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/22/23 10:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/22/23 10:55	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/22/23 10:55	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/22/23 10:55	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/22/23 10:55	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/22/23 10:55	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/22/23 10:55	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/22/23 10:55	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/22/23 10:55	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/22/23 10:55	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/22/23 10:55	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/22/23 10:55	1
2-Hexanone	ND		6.0	2.0	ug/L			06/22/23 10:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/22/23 10:55	1
Acetone	ND		8.0	3.6	ug/L			06/22/23 10:55	1
Acrolein	ND		4.0	3.6	ug/L			06/22/23 10:55	1
Allyl chloride	ND		2.0	0.47	ug/L			06/22/23 10:55	1
Benzene	ND		0.50	0.14	ug/L			06/22/23 10:55	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/22/23 10:55	1
Bromodichloromethane	ND		0.50	0.15	ug/L			06/22/23 10:55	1
Bromoform	ND		0.50	0.28	ug/L			06/22/23 10:55	1
Bromomethane	ND		2.0	1.9	ug/L			06/22/23 10:55	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/22/23 10:55	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/22/23 10:55	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/22/23 10:55	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/22/23 10:55	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/22/23 10:55	1
Chloroethane	ND		0.50	0.38	ug/L			06/22/23 10:55	1
Chloroform	ND		0.50	0.17	ug/L			06/22/23 10:55	1
Chloromethane	ND		1.0	0.65	ug/L			06/22/23 10:55	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/22/23 10:55	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/22/23 10:55	1
Dibromomethane	ND		0.50	0.16	ug/L			06/22/23 10:55	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/22/23 10:55	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/22/23 10:55	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/22/23 10:55	1
Iodomethane	ND		25	8.7	ug/L			06/22/23 10:55	1
Isobutyl alcohol	ND		50	35	ug/L			06/22/23 10:55	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/22/23 10:55	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/22/23 10:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-339518/7
Matrix: Water
Analysis Batch: 339518

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.40	ug/L			06/22/23 10:55	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/22/23 10:55	1
Naphthalene	ND		1.0	0.55	ug/L			06/22/23 10:55	1
o-Xylene	ND		0.50	0.18	ug/L			06/22/23 10:55	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/22/23 10:55	1
Propionitrile	ND		5.0	3.1	ug/L			06/22/23 10:55	1
Styrene	ND		0.50	0.27	ug/L			06/22/23 10:55	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/22/23 10:55	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/22/23 10:55	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/22/23 10:55	1
t-Butanol	ND		5.0	3.1	ug/L			06/22/23 10:55	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/22/23 10:55	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/22/23 10:55	1
Toluene	ND		0.50	0.14	ug/L			06/22/23 10:55	1
Trichloroethene	ND		0.50	0.15	ug/L			06/22/23 10:55	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/22/23 10:55	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/22/23 10:55	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/22/23 10:55	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/22/23 10:55*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 132*		*06/22/23 10:55*	*1*
4-Bromofluorobenzene (Surr)	*92*		*76 - 120*		*06/22/23 10:55*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/22/23 10:55*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/22/23 10:55*	*1*

Lab Sample ID: LCS 570-339518/4
Matrix: Water
Analysis Batch: 339518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	11.6		ug/L		116	80 - 125
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	75 - 121
1,1,2,2-Tetrachloroethane	10.0	10.6		ug/L		106	80 - 120
1,1,2-Trichloroethane	10.0	11.5		ug/L		115	80 - 121
1,1-Dichloroethane	10.0	10.3		ug/L		103	80 - 120
1,1-Dichloroethene	10.0	9.50		ug/L		95	80 - 126
1,1-Dichloropropene	10.0	9.61		ug/L		96	72 - 122
1,2,3-Trichloropropane	10.0	11.0		ug/L		110	75 - 127
1,2,4-Trichlorobenzene	10.0	10.8		ug/L		108	80 - 124
1,2-Dibromo-3-Chloropropane	10.0	8.69		ug/L		87	63 - 123
1,2-Dibromoethane (EDB)	10.0	11.5		ug/L		115	80 - 125
1,2-Dichlorobenzene	10.0	11.5		ug/L		115	80 - 120
1,2-Dichloroethane	10.0	11.2		ug/L		112	76 - 130
1,2-Dichloropropane	10.0	10.3		ug/L		103	74 - 124
1,3-Dichlorobenzene	10.0	11.6		ug/L		116	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-339518/4
Matrix: Water
Analysis Batch: 339518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichloropropane	10.0	11.3		ug/L		113	80 - 121
1,4-Dichlorobenzene	10.0	11.3		ug/L		113	80 - 120
2,2-Dichloropropane	10.0	10.4		ug/L		104	79 - 131
2-Butanone (MEK)	10.0	9.44		ug/L		94	48 - 145
2-Chloroethyl vinyl ether	10.0	11.0		ug/L		110	20 - 120
2-Hexanone	10.0	8.48		ug/L		85	50 - 149
4-Methyl-2-pentanone (MIBK)	10.0	9.05		ug/L		91	63 - 120
Acetone	10.0	8.11		ug/L		81	45 - 139
Acrolein	20.0	15.9		ug/L		79	71 - 180
Benzene	10.0	11.3		ug/L		113	80 - 120
Bromochloromethane	10.0	11.5		ug/L		115	80 - 120
Bromodichloromethane	10.0	11.6		ug/L		116	73 - 131
Bromoform	10.0	11.0		ug/L		110	76 - 124
Bromomethane	10.0	12.4		ug/L		124	26 - 180
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	80 - 120
cis-1,3-Dichloropropene	10.0	9.78		ug/L		98	76 - 123
Carbon disulfide	10.0	10.5		ug/L		105	75 - 123
Carbon tetrachloride	10.0	9.58		ug/L		96	61 - 139
Chlorobenzene	10.0	11.4		ug/L		114	80 - 120
Chloroethane	10.0	9.52		ug/L		95	54 - 150
Chloroform	10.0	10.3		ug/L		103	80 - 120
Chloromethane	10.0	11.2		ug/L		112	28 - 151
Dibromochloromethane	10.0	11.6		ug/L		116	74 - 136
Dibromomethane	10.0	11.4		ug/L		114	80 - 122
Dichlorodifluoromethane	10.0	8.12		ug/L		81	27 - 154
Ethylbenzene	10.0	11.5		ug/L		115	80 - 126
Isobutyl alcohol	50.0	39.5	J	ug/L		79	20 - 180
Methylene Chloride	10.0	10.8		ug/L		108	80 - 120
Methyl tert-butyl ether	10.0	9.65		ug/L		96	69 - 128
Naphthalene	10.0	10.2		ug/L		102	70 - 130
o-Xylene	10.0	11.2		ug/L		112	80 - 124
m,p-Xylene	20.0	23.2		ug/L		116	80 - 123
Styrene	10.0	11.8		ug/L		118	80 - 121
trans-1,2-Dichloroethene	10.0	11.0		ug/L		110	79 - 120
trans-1,3-Dichloropropene	10.0	10.6		ug/L		106	80 - 126
t-Butanol	50.0	56.8		ug/L		114	68 - 133
Tetrachloroethene	10.0	12.5		ug/L		125	80 - 125
Toluene	10.0	11.7		ug/L		117	80 - 120
Trichloroethene	10.0	11.3		ug/L		113	77 - 124
Trichlorofluoromethane	10.0	9.11		ug/L		91	41 - 163
Vinyl acetate	10.0	10.2		ug/L		102	61 - 126
Vinyl chloride	10.0	8.45		ug/L		85	50 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*64 - 132*
4-Bromofluorobenzene (Surr)	*99*		*76 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-339518/5
Matrix: Water
Analysis Batch: 339518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			10.0	11.1		ug/L		111	80 - 125	4	20
1,1,1-Trichloroethane			10.0	9.93		ug/L		99	75 - 121	3	20
1,1,2,2-Tetrachloroethane			10.0	10.3		ug/L		103	80 - 120	3	20
1,1,2-Trichloroethane			10.0	11.1		ug/L		111	80 - 121	3	20
1,1-Dichloroethane			10.0	9.76		ug/L		98	80 - 120	5	20
1,1-Dichloroethene			10.0	9.01		ug/L		90	80 - 126	5	21
1,1-Dichloropropene			10.0	9.13		ug/L		91	72 - 122	5	20
1,2,3-Trichloropropane			10.0	10.8		ug/L		108	75 - 127	2	20
1,2,4-Trichlorobenzene			10.0	10.2		ug/L		102	80 - 124	6	20
1,2-Dibromo-3-Chloropropane			10.0	8.17		ug/L		82	63 - 123	6	20
1,2-Dibromoethane (EDB)			10.0	11.2		ug/L		112	80 - 125	2	20
1,2-Dichlorobenzene			10.0	11.0		ug/L		110	80 - 120	5	20
1,2-Dichloroethane			10.0	10.7		ug/L		107	76 - 130	4	20
1,2-Dichloropropane			10.0	9.62		ug/L		96	74 - 124	7	20
1,3-Dichlorobenzene			10.0	11.0		ug/L		110	80 - 120	6	20
1,3-Dichloropropane			10.0	11.1		ug/L		111	80 - 121	2	20
1,4-Dichlorobenzene			10.0	10.8		ug/L		108	80 - 120	5	20
2,2-Dichloropropane			10.0	9.68		ug/L		97	79 - 131	7	20
2-Butanone (MEK)			10.0	9.17		ug/L		92	48 - 145	3	30
2-Chloroethyl vinyl ether			10.0	7.91	*1	ug/L		79	20 - 120	32	30
2-Hexanone			10.0	9.53		ug/L		95	50 - 149	12	29
4-Methyl-2-pentanone (MIBK)			10.0	8.65		ug/L		87	63 - 120	5	20
Acetone			10.0	8.18		ug/L		82	45 - 139	1	30
Acrolein			20.0	15.3		ug/L		76	71 - 180	4	26
Benzene			10.0	10.5		ug/L		105	80 - 120	7	20
Bromochloromethane			10.0	11.4		ug/L		114	80 - 120	0	20
Bromodichloromethane			10.0	11.0		ug/L		110	73 - 131	6	20
Bromoform			10.0	10.6		ug/L		106	76 - 124	3	20
Bromomethane			10.0	12.0		ug/L		120	26 - 180	3	20
cis-1,2-Dichloroethene			10.0	10.1		ug/L		101	80 - 120	4	20
cis-1,3-Dichloropropene			10.0	9.23		ug/L		92	76 - 123	6	20
Carbon disulfide			10.0	11.5		ug/L		115	75 - 123	9	20
Carbon tetrachloride			10.0	9.15		ug/L		91	61 - 139	5	20
Chlorobenzene			10.0	11.1		ug/L		111	80 - 120	3	20
Chloroethane			10.0	9.21		ug/L		92	54 - 150	3	25
Chloroform			10.0	9.91		ug/L		99	80 - 120	4	20
Chloromethane			10.0	10.9		ug/L		109	28 - 151	3	20
Dibromochloromethane			10.0	11.3		ug/L		113	74 - 136	3	20
Dibromomethane			10.0	10.9		ug/L		109	80 - 122	5	20
Dichlorodifluoromethane			10.0	7.40		ug/L		74	27 - 154	9	21
Ethylbenzene			10.0	11.0		ug/L		110	80 - 126	4	20
Isobutyl alcohol			50.0	35.9	J	ug/L		72	20 - 180	10	30
Methylene Chloride			10.0	10.5		ug/L		105	80 - 120	3	20
Methyl tert-butyl ether			10.0	9.40		ug/L		94	69 - 128	3	20
Naphthalene			10.0	9.64		ug/L		96	70 - 130	6	20
o-Xylene			10.0	10.9		ug/L		109	80 - 124	3	20
m,p-Xylene			20.0	22.2		ug/L		111	80 - 123	4	20
Styrene			10.0	11.3		ug/L		113	80 - 121	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-339518/5
Matrix: Water
Analysis Batch: 339518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			10.0	10.4		ug/L		104	79 - 120	5	20
trans-1,3-Dichloropropene			10.0	10.3		ug/L		103	80 - 126	3	20
t-Butanol			50.0	57.7		ug/L		115	68 - 133	2	21
Tetrachloroethene			10.0	11.9		ug/L		119	80 - 125	5	20
Toluene			10.0	10.9		ug/L		109	80 - 120	7	20
Trichloroethene			10.0	10.4		ug/L		104	77 - 124	9	20
Trichlorofluoromethane			10.0	8.75		ug/L		88	41 - 163	4	21
Vinyl acetate			10.0	9.34		ug/L		93	61 - 126	9	24
Vinyl chloride			10.0	9.37		ug/L		94	50 - 160	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 132*
4-Bromofluorobenzene (Surr)	*98*		*76 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: MB 570-339901/7
Matrix: Water
Analysis Batch: 339901

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.20	ug/L			06/23/23 10:16	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			06/23/23 10:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/23/23 10:16	1
1,1,2-Trichloroethane	ND		0.50	0.18	ug/L			06/23/23 10:16	1
1,1-Dichloroethane	ND		0.50	0.21	ug/L			06/23/23 10:16	1
1,1-Dichloroethene	ND		0.50	0.21	ug/L			06/23/23 10:16	1
1,1-Dichloropropene	ND		0.50	0.16	ug/L			06/23/23 10:16	1
1,2,3-Trichloropropane	ND		0.50	0.31	ug/L			06/23/23 10:16	1
1,2,4-Trichlorobenzene	ND		0.50	0.26	ug/L			06/23/23 10:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.84	ug/L			06/23/23 10:16	1
1,2-Dibromoethane (EDB)	ND		0.50	0.27	ug/L			06/23/23 10:16	1
1,2-Dichlorobenzene	ND		0.50	0.14	ug/L			06/23/23 10:16	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/23/23 10:16	1
1,2-Dichloropropane	ND		0.50	0.14	ug/L			06/23/23 10:16	1
1,3-Dichlorobenzene	ND		0.50	0.16	ug/L			06/23/23 10:16	1
1,3-Dichloropropane	ND		0.50	0.19	ug/L			06/23/23 10:16	1
1,4-Dichlorobenzene	ND		0.50	0.11	ug/L			06/23/23 10:16	1
2,2-Dichloropropane	ND		0.50	0.26	ug/L			06/23/23 10:16	1
2-Butanone (MEK)	ND		5.0	2.9	ug/L			06/23/23 10:16	1
2-Chloroethyl vinyl ether	ND		5.0	4.5	ug/L			06/23/23 10:16	1
2-Hexanone	ND		6.0	2.0	ug/L			06/23/23 10:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.6	ug/L			06/23/23 10:16	1
Acetone	ND		8.0	3.6	ug/L			06/23/23 10:16	1
Acrolein	ND		4.0	3.6	ug/L			06/23/23 10:16	1
Allyl chloride	ND		2.0	0.47	ug/L			06/23/23 10:16	1
Benzene	ND		0.50	0.14	ug/L			06/23/23 10:16	1
Bromochloromethane	ND		1.0	0.27	ug/L			06/23/23 10:16	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-339901/7
Matrix: Water
Analysis Batch: 339901

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.50	0.15	ug/L			06/23/23 10:16	1
Bromoform	ND		0.50	0.28	ug/L			06/23/23 10:16	1
Bromomethane	ND		2.0	1.9	ug/L			06/23/23 10:16	1
cis-1,2-Dichloroethene	ND		0.50	0.16	ug/L			06/23/23 10:16	1
cis-1,3-Dichloropropene	ND		0.50	0.15	ug/L			06/23/23 10:16	1
Carbon disulfide	ND		1.0	0.32	ug/L			06/23/23 10:16	1
Carbon tetrachloride	ND		0.50	0.27	ug/L			06/23/23 10:16	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/23/23 10:16	1
Chloroethane	ND		0.50	0.38	ug/L			06/23/23 10:16	1
Chloroform	ND		0.50	0.17	ug/L			06/23/23 10:16	1
Chloromethane	ND		1.0	0.65	ug/L			06/23/23 10:16	1
2-Chloro-1,3-butadiene	ND		2.0	1.1	ug/L			06/23/23 10:16	1
Dibromochloromethane	ND		0.50	0.21	ug/L			06/23/23 10:16	1
Dibromomethane	ND		0.50	0.16	ug/L			06/23/23 10:16	1
Dichlorodifluoromethane	ND		1.0	0.51	ug/L			06/23/23 10:16	1
Ethyl methacrylate	ND		2.0	1.5	ug/L			06/23/23 10:16	1
Ethylbenzene	ND		0.50	0.16	ug/L			06/23/23 10:16	1
Iodomethane	ND		25	8.7	ug/L			06/23/23 10:16	1
Isobutyl alcohol	ND		50	35	ug/L			06/23/23 10:16	1
Methylacrylonitrile	ND		2.0	1.4	ug/L			06/23/23 10:16	1
Methyl methacrylate	ND		2.0	1.9	ug/L			06/23/23 10:16	1
Methylene Chloride	ND		1.0	0.40	ug/L			06/23/23 10:16	1
Methyl tert-butyl ether	ND		0.50	0.14	ug/L			06/23/23 10:16	1
Naphthalene	ND		1.0	0.55	ug/L			06/23/23 10:16	1
o-Xylene	ND		0.50	0.18	ug/L			06/23/23 10:16	1
m,p-Xylene	ND		1.0	0.39	ug/L			06/23/23 10:16	1
Propionitrile	ND		5.0	3.1	ug/L			06/23/23 10:16	1
Styrene	ND		0.50	0.27	ug/L			06/23/23 10:16	1
trans-1,2-Dichloroethene	ND		0.50	0.22	ug/L			06/23/23 10:16	1
trans-1,3-Dichloropropene	ND		0.50	0.21	ug/L			06/23/23 10:16	1
trans-1,4-Dichloro-2-butene	ND		2.0	1.5	ug/L			06/23/23 10:16	1
t-Butanol	ND		5.0	3.1	ug/L			06/23/23 10:16	1
Tetrachloroethene	ND		0.50	0.16	ug/L			06/23/23 10:16	1
Tetrahydrofuran	ND		2.0	1.3	ug/L			06/23/23 10:16	1
Toluene	ND		0.50	0.14	ug/L			06/23/23 10:16	1
Trichloroethene	ND		0.50	0.15	ug/L			06/23/23 10:16	1
Trichlorofluoromethane	ND		0.50	0.26	ug/L			06/23/23 10:16	1
Vinyl acetate	ND		5.0	3.2	ug/L			06/23/23 10:16	1
Vinyl chloride	ND		0.50	0.23	ug/L			06/23/23 10:16	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/23/23 10:16*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 132*		*06/23/23 10:16*	*1*
4-Bromofluorobenzene (Surr)	*91*		*76 - 120*		*06/23/23 10:16*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*06/23/23 10:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/23/23 10:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 570-339901/4
Matrix: Water
Analysis Batch: 339901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	10.0	10.6		ug/L		106	80 - 125
1,1,1-Trichloroethane	10.0	9.33		ug/L		93	75 - 121
1,1,2,2-Tetrachloroethane	10.0	9.67		ug/L		97	80 - 120
1,1,2-Trichloroethane	10.0	9.98		ug/L		100	80 - 121
1,1-Dichloroethane	10.0	10.0		ug/L		100	80 - 120
1,1-Dichloroethene	10.0	10.0		ug/L		100	80 - 126
1,1-Dichloropropene	10.0	9.23		ug/L		92	72 - 122
1,2,3-Trichloropropane	10.0	9.07		ug/L		91	75 - 127
1,2,4-Trichlorobenzene	10.0	10.5		ug/L		105	80 - 124
1,2-Dibromo-3-Chloropropane	10.0	8.33		ug/L		83	63 - 123
1,2-Dibromoethane (EDB)	10.0	8.87		ug/L		89	80 - 125
1,2-Dichlorobenzene	10.0	9.84		ug/L		98	80 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	76 - 130
1,2-Dichloropropane	10.0	10.2		ug/L		102	74 - 124
1,3-Dichlorobenzene	10.0	9.84		ug/L		98	80 - 120
1,3-Dichloropropane	10.0	10.1		ug/L		101	80 - 121
1,4-Dichlorobenzene	10.0	9.49		ug/L		95	80 - 120
2,2-Dichloropropane	10.0	8.75		ug/L		88	79 - 131
2-Butanone (MEK)	10.0	9.13		ug/L		91	48 - 145
2-Chloroethyl vinyl ether	10.0	6.77		ug/L		68	20 - 120
2-Hexanone	10.0	9.42		ug/L		94	50 - 149
4-Methyl-2-pentanone (MIBK)	10.0	8.45		ug/L		84	63 - 120
Acetone	10.0	8.55		ug/L		85	45 - 139
Acrolein	20.0	16.4		ug/L		82	71 - 180
Benzene	10.0	9.77		ug/L		98	80 - 120
Bromochloromethane	10.0	9.03		ug/L		90	80 - 120
Bromodichloromethane	10.0	9.96		ug/L		100	73 - 131
Bromoform	10.0	9.20		ug/L		92	76 - 124
Bromomethane	10.0	7.37		ug/L		74	26 - 180
cis-1,2-Dichloroethene	10.0	9.63		ug/L		96	80 - 120
cis-1,3-Dichloropropene	10.0	8.64		ug/L		86	76 - 123
Carbon disulfide	10.0	8.46		ug/L		85	75 - 123
Carbon tetrachloride	10.0	9.83		ug/L		98	61 - 139
Chlorobenzene	10.0	10.0		ug/L		100	80 - 120
Chloroethane	10.0	10.6		ug/L		106	54 - 150
Chloroform	10.0	9.28		ug/L		93	80 - 120
Chloromethane	10.0	9.24		ug/L		92	28 - 151
Dibromochloromethane	10.0	9.18		ug/L		92	74 - 136
Dibromomethane	10.0	9.59		ug/L		96	80 - 122
Dichlorodifluoromethane	10.0	9.93		ug/L		99	27 - 154
Ethylbenzene	10.0	10.1		ug/L		101	80 - 126
Isobutyl alcohol	50.0	45.7	J	ug/L		91	20 - 180
Methylene Chloride	10.0	8.37		ug/L		84	80 - 120
Methyl tert-butyl ether	10.0	7.98		ug/L		80	69 - 128
Naphthalene	10.0	10.5		ug/L		105	70 - 130
o-Xylene	10.0	9.86		ug/L		99	80 - 124
m,p-Xylene	20.0	20.5		ug/L		102	80 - 123
Styrene	10.0	9.70		ug/L		97	80 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-339901/4
Matrix: Water
Analysis Batch: 339901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	10.0	9.10		ug/L		91	79 - 120
trans-1,3-Dichloropropene	10.0	8.90		ug/L		89	80 - 126
t-Butanol	50.0	52.6		ug/L		105	68 - 133
Tetrachloroethene	10.0	10.3		ug/L		103	80 - 125
Toluene	10.0	9.76		ug/L		98	80 - 120
Trichloroethene	10.0	9.50		ug/L		95	77 - 124
Trichlorofluoromethane	10.0	11.3		ug/L		113	41 - 163
Vinyl acetate	10.0	7.67		ug/L		77	61 - 126
Vinyl chloride	10.0	10.6		ug/L		106	50 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 132*
4-Bromofluorobenzene (Surr)	*98*		*76 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 570-339901/5
Matrix: Water
Analysis Batch: 339901

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.1		ug/L		101	80 - 125	5	20
1,1,1-Trichloroethane	10.0	8.86		ug/L		89	75 - 121	5	20
1,1,2,2-Tetrachloroethane	10.0	9.41		ug/L		94	80 - 120	3	20
1,1,2-Trichloroethane	10.0	9.83		ug/L		98	80 - 121	2	20
1,1-Dichloroethane	10.0	9.62		ug/L		96	80 - 120	4	20
1,1-Dichloroethene	10.0	9.63		ug/L		96	80 - 126	4	21
1,1-Dichloropropene	10.0	8.83		ug/L		88	72 - 122	4	20
1,2,3-Trichloropropane	10.0	7.79		ug/L		78	75 - 127	15	20
1,2,4-Trichlorobenzene	10.0	10.2		ug/L		102	80 - 124	3	20
1,2-Dibromo-3-Chloropropane	10.0	8.23		ug/L		82	63 - 123	1	20
1,2-Dibromoethane (EDB)	10.0	8.65		ug/L		86	80 - 125	3	20
1,2-Dichlorobenzene	10.0	9.64		ug/L		96	80 - 120	2	20
1,2-Dichloroethane	10.0	9.70		ug/L		97	76 - 130	4	20
1,2-Dichloropropane	10.0	9.58		ug/L		96	74 - 124	6	20
1,3-Dichlorobenzene	10.0	9.52		ug/L		95	80 - 120	3	20
1,3-Dichloropropane	10.0	10.1		ug/L		101	80 - 121	0	20
1,4-Dichlorobenzene	10.0	9.27		ug/L		93	80 - 120	2	20
2,2-Dichloropropane	10.0	8.18		ug/L		82	79 - 131	7	20
2-Butanone (MEK)	10.0	8.54		ug/L		85	48 - 145	7	30
2-Chloroethyl vinyl ether	10.0	7.26		ug/L		73	20 - 120	7	30
2-Hexanone	10.0	9.32		ug/L		93	50 - 149	1	29
4-Methyl-2-pentanone (MIBK)	10.0	7.86		ug/L		79	63 - 120	7	20
Acetone	10.0	8.19		ug/L		82	45 - 139	4	30
Acrolein	20.0	16.1		ug/L		81	71 - 180	1	26
Benzene	10.0	9.39		ug/L		94	80 - 120	4	20
Bromochloromethane	10.0	8.96		ug/L		90	80 - 120	1	20
Bromodichloromethane	10.0	9.54		ug/L		95	73 - 131	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-339901/5
Matrix: Water
Analysis Batch: 339901

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromoform			10.0	8.98		ug/L		90	76 - 124	2	20
Bromomethane			10.0	7.14		ug/L		71	26 - 180	3	20
cis-1,2-Dichloroethene			10.0	9.29		ug/L		93	80 - 120	4	20
cis-1,3-Dichloropropene			10.0	8.40		ug/L		84	76 - 123	3	20
Carbon disulfide			10.0	7.92		ug/L		79	75 - 123	7	20
Carbon tetrachloride			10.0	9.45		ug/L		94	61 - 139	4	20
Chlorobenzene			10.0	9.56		ug/L		96	80 - 120	5	20
Chloroethane			10.0	9.90		ug/L		99	54 - 150	7	25
Chloroform			10.0	8.97		ug/L		90	80 - 120	3	20
Chloromethane			10.0	8.89		ug/L		89	28 - 151	4	20
Dibromochloromethane			10.0	9.24		ug/L		92	74 - 136	1	20
Dibromomethane			10.0	9.29		ug/L		93	80 - 122	3	20
Dichlorodifluoromethane			10.0	9.45		ug/L		94	27 - 154	5	21
Ethylbenzene			10.0	9.55		ug/L		96	80 - 126	6	20
Isobutyl alcohol			50.0	36.6	J	ug/L		73	20 - 180	22	30
Methylene Chloride			10.0	8.06		ug/L		81	80 - 120	4	20
Methyl tert-butyl ether			10.0	7.92		ug/L		79	69 - 128	1	20
Naphthalene			10.0	10.1		ug/L		101	70 - 130	4	20
o-Xylene			10.0	9.44		ug/L		94	80 - 124	4	20
m,p-Xylene			20.0	19.3		ug/L		97	80 - 123	6	20
Styrene			10.0	9.48		ug/L		95	80 - 121	2	20
trans-1,2-Dichloroethene			10.0	8.70		ug/L		87	79 - 120	5	20
trans-1,3-Dichloropropene			10.0	8.65		ug/L		87	80 - 126	3	20
t-Butanol			50.0	51.0		ug/L		102	68 - 133	3	21
Tetrachloroethene			10.0	9.77		ug/L		98	80 - 125	5	20
Toluene			10.0	9.16		ug/L		92	80 - 120	6	20
Trichloroethene			10.0	8.94		ug/L		89	77 - 124	6	20
Trichlorofluoromethane			10.0	10.8		ug/L		108	41 - 163	5	21
Vinyl acetate			10.0	7.13		ug/L		71	61 - 126	7	24
Vinyl chloride			10.0	10.1		ug/L		101	50 - 160	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 132*
4-Bromofluorobenzene (Surr)	*99*		*76 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 570-340348/7
Matrix: Water
Analysis Batch: 340348

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		50	35	ug/L			06/26/23 08:33	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*06/26/23 08:33*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-340348/7
Matrix: Water
Analysis Batch: 340348

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		64 - 132		06/26/23 08:33	1
4-Bromofluorobenzene (Surr)	90		76 - 120		06/26/23 08:33	1
Dibromofluoromethane (Surr)	101		80 - 120		06/26/23 08:33	1
Toluene-d8 (Surr)	96		80 - 120		06/26/23 08:33	1

Lab Sample ID: LCS 570-340348/4
Matrix: Water
Analysis Batch: 340348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Isobutyl alcohol			50.0	39.2	J	ug/L		78	20 - 180		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		64 - 132
4-Bromofluorobenzene (Surr)	99		76 - 120
Dibromofluoromethane (Surr)	94		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 570-340348/5
Matrix: Water
Analysis Batch: 340348

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isobutyl alcohol			50.0	ND		ug/L		70	20 - 180	12	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		64 - 132
4-Bromofluorobenzene (Surr)	97		76 - 120
Dibromofluoromethane (Surr)	95		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-339721/1-A
Matrix: Water
Analysis Batch: 339889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 339721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.34	ug/L		06/22/23 14:03	06/23/23 13:10	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	40		21 - 120	06/22/23 14:03	06/23/23 13:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	92		58 - 135	06/22/23 14:03	06/23/23 13:10	1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: LCS 570-339721/2-A
Matrix: Water
Analysis Batch: 339889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 339721

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			20.0	16.5		ug/L		83	63 - 144		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*35*		*21 - 120*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*84*		*58 - 135*

Lab Sample ID: LCSD 570-339721/3-A
Matrix: Water
Analysis Batch: 339889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 339721

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			20.0	17.5		ug/L		88	63 - 144	6	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*30*		*21 - 120*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*82*		*58 - 135*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-338708/5
Matrix: Water
Analysis Batch: 338708

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.10	0.041	mg/L			06/20/23 06:08	1
Chloride	ND		1.0	0.36	mg/L			06/20/23 06:08	1
Fluoride	ND		0.10	0.046	mg/L			06/20/23 06:08	1
Sulfate	ND		1.0	0.24	mg/L			06/20/23 06:08	1

Lab Sample ID: LCS 570-338708/6
Matrix: Water
Analysis Batch: 338708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide			5.00	4.90		mg/L		98	90 - 110		
Chloride			50.0	48.6		mg/L		97	90 - 110		
Fluoride			2.50	2.45		mg/L		98	90 - 110		
Sulfate			50.0	49.8		mg/L		100	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 570-338708/7
Matrix: Water
Analysis Batch: 338708

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide			5.00	4.91		mg/L		98	90 - 110	0	15
Chloride			50.0	48.5		mg/L		97	90 - 110	0	15
Fluoride			2.50	2.43		mg/L		97	90 - 110	1	15
Sulfate			50.0	49.9		mg/L		100	90 - 110	0	15

Lab Sample ID: 570-142240-I-4 MS
Matrix: Water
Analysis Batch: 338708

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Bromide	0.085	J	5.00	5.25		mg/L		103	80 - 120		
Chloride	14		50.0	69.8		mg/L		112	80 - 120		
Fluoride	0.74	F1	2.50	4.09	F1	mg/L		134	80 - 120		
Sulfate	0.45	J	50.0	53.3		mg/L		106	80 - 120		

Lab Sample ID: 570-142240-I-4 MSD
Matrix: Water
Analysis Batch: 338708

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	0.085	J	5.00	5.22		mg/L		103	80 - 120	1	20
Chloride	14		50.0	69.8		mg/L		112	80 - 120	0	20
Fluoride	0.74	F1	2.50	4.04	F1	mg/L		132	80 - 120	1	20
Sulfate	0.45	J	50.0	53.3		mg/L		106	80 - 120	0	20

Lab Sample ID: MB 570-338709/5
Matrix: Water
Analysis Batch: 338709

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.10	0.020	mg/L			06/20/23 06:08	1

Lab Sample ID: LCS 570-338709/6
Matrix: Water
Analysis Batch: 338709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			5.00	4.85		mg/L		97	90 - 110		

Lab Sample ID: LCSD 570-338709/7
Matrix: Water
Analysis Batch: 338709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N			5.00	4.91		mg/L		98	90 - 110	1	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 570-142240-I-4 MS
Matrix: Water
Analysis Batch: 338709

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	ND		5.00	5.24		mg/L		105	80 - 120		

Lab Sample ID: 570-142240-I-4 MSD
Matrix: Water
Analysis Batch: 338709

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	5.21		mg/L		104	80 - 120	1	20

Lab Sample ID: MB 570-339994/5
Matrix: Water
Analysis Batch: 339994

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.24	mg/L			06/23/23 11:01	1

Lab Sample ID: LCS 570-339994/6
Matrix: Water
Analysis Batch: 339994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			50.0	48.6		mg/L		97	90 - 110		

Lab Sample ID: LCSD 570-339994/7
Matrix: Water
Analysis Batch: 339994

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			50.0	48.3		mg/L		97	90 - 110	1	15

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 570-142702-I-2 MS
Matrix: Water
Analysis Batch: 339994

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate - DL	200		50.0	252	4	mg/L		100	80 - 120		

Lab Sample ID: 570-142702-I-2 MSD
Matrix: Water
Analysis Batch: 339994

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate - DL	200		50.0	249	4	mg/L		95	80 - 120	1	20

Method: 6010B - Metals (ICP)

Lab Sample ID: 570-142342-S-4-B MS
Matrix: Water
Analysis Batch: 339665

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 339131

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.53		0.500	1.09		mg/L		112	81 - 135
Calcium	270		2.50	279	4	mg/L		496	77 - 113
Iron	4.1	B	0.500	4.83	4	mg/L		152	65 - 149
Magnesium	110		2.50	116	4	mg/L		244	56 - 140
Manganese	1.0		0.500	1.58		mg/L		109	86 - 116
Potassium	8.5		5.00	14.3		mg/L		115	83 - 131
Sodium	280		5.00	295	4	mg/L		282	73 - 127

Lab Sample ID: 570-142342-S-4-C MSD
Matrix: Water
Analysis Batch: 339665

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 339131

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.53		0.500	1.08		mg/L		109	81 - 135	1	7
Calcium	270		2.50	275	4	mg/L		332	77 - 113	1	11
Iron	4.1	B	0.500	4.75	4	mg/L		137	65 - 149	2	21
Magnesium	110		2.50	114	4	mg/L		172	56 - 140	2	11
Manganese	1.0		0.500	1.56		mg/L		105	86 - 116	1	7
Potassium	8.5		5.00	14.1		mg/L		112	83 - 131	1	7
Sodium	280		5.00	292	4	mg/L		222	73 - 127	1	9

Lab Sample ID: MB 570-339131/1-A
Matrix: Water
Analysis Batch: 339665

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 339131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.50	0.0039	mg/L		06/21/23 06:54	06/22/23 10:11	1
Calcium	ND		2.0	0.028	mg/L		06/21/23 06:54	06/22/23 10:11	1
Iron	0.162	J	0.50	0.013	mg/L		06/21/23 06:54	06/22/23 10:11	1
Magnesium	ND		0.50	0.048	mg/L		06/21/23 06:54	06/22/23 10:11	1
Manganese	ND		0.050	0.0013	mg/L		06/21/23 06:54	06/22/23 10:11	1
Potassium	ND		2.0	0.58	mg/L		06/21/23 06:54	06/22/23 10:11	1
Sodium	ND		2.0	0.31	mg/L		06/21/23 06:54	06/22/23 10:11	1

Lab Sample ID: LCS 570-339131/2-A
Matrix: Water
Analysis Batch: 339665

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 339131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.518		mg/L		104	80 - 120
Calcium	2.50	2.61		mg/L		104	80 - 120
Iron	0.500	0.557		mg/L		111	80 - 120
Magnesium	2.50	2.63		mg/L		105	80 - 120
Manganese	0.500	0.519		mg/L		104	80 - 120
Potassium	5.00	5.19		mg/L		104	80 - 120
Sodium	5.00	5.18		mg/L		104	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-339131/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 339665
Prep Batch: 339131

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron			0.500	0.497	J	mg/L		99	80 - 120	4	20
Calcium			2.50	2.51		mg/L		100	80 - 120	4	20
Iron			0.500	0.508		mg/L		102	80 - 120	9	20
Magnesium			2.50	2.51		mg/L		100	80 - 120	5	20
Manganese			0.500	0.497		mg/L		99	80 - 120	4	20
Potassium			5.00	5.01		mg/L		100	80 - 120	4	20
Sodium			5.00	4.98		mg/L		100	80 - 120	4	20

Lab Sample ID: MB 570-339529/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 339776
Prep Batch: 339529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.50	0.0039	mg/L		06/22/23 08:11	06/22/23 13:37	1
Calcium	ND		2.0	0.028	mg/L		06/22/23 08:11	06/22/23 13:37	1
Iron	ND		0.50	0.013	mg/L		06/22/23 08:11	06/22/23 13:37	1
Magnesium	ND		0.50	0.048	mg/L		06/22/23 08:11	06/22/23 13:37	1
Manganese	ND		0.050	0.0013	mg/L		06/22/23 08:11	06/22/23 13:37	1
Potassium	ND		2.0	0.58	mg/L		06/22/23 08:11	06/22/23 13:37	1

Lab Sample ID: MB 570-339529/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 340130
Prep Batch: 339529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		2.0	0.31	mg/L		06/22/23 08:11	06/23/23 13:11	1

Lab Sample ID: LCS 570-339529/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 339776
Prep Batch: 339529

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron			0.500	0.507		mg/L		101	80 - 120
Calcium			2.50	2.56		mg/L		103	80 - 120
Iron			0.500	0.523		mg/L		105	80 - 120
Magnesium			2.50	2.60		mg/L		104	80 - 120
Manganese			0.500	0.511		mg/L		102	80 - 120
Potassium			5.00	5.09		mg/L		102	80 - 120

Lab Sample ID: LCS 570-339529/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 340130
Prep Batch: 339529

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium			5.00	5.61		mg/L		112	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-339529/3-A
Matrix: Water
Analysis Batch: 339776

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 339529

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron			0.500	0.496	J	mg/L		99	80 - 120	2	20
Calcium			2.50	2.53		mg/L		101	80 - 120	1	20
Iron			0.500	0.516		mg/L		103	80 - 120	1	20
Magnesium			2.50	2.55		mg/L		102	80 - 120	2	20
Manganese			0.500	0.499		mg/L		100	80 - 120	2	20
Potassium			5.00	5.13		mg/L		103	80 - 120	1	20

Lab Sample ID: LCSD 570-339529/3-A
Matrix: Water
Analysis Batch: 340130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 339529

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium			5.00	5.46		mg/L		109	80 - 120	3	20

Lab Sample ID: 570-142521-C-1-C MS
Matrix: Water
Analysis Batch: 339776

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 339529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.52		0.500	1.04		mg/L		104	81 - 135
Calcium	1.0	J	2.50	3.59		mg/L		102	77 - 113
Iron	9.0		0.500	8.96	4	mg/L		-3	65 - 149
Magnesium	0.16	J	2.50	2.71		mg/L		102	56 - 140
Manganese	0.84		0.500	1.36		mg/L		103	86 - 116
Potassium	ND		5.00	5.39		mg/L		108	83 - 131

Lab Sample ID: 570-142521-C-1-C MS
Matrix: Water
Analysis Batch: 340130

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 339529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	1.2	J	5.00	6.42		mg/L		104	73 - 127

Lab Sample ID: 570-142521-C-1-D MSD
Matrix: Water
Analysis Batch: 339776

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 339529

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.52		0.500	1.05		mg/L		107	81 - 135	1	7
Calcium	1.0	J	2.50	3.66		mg/L		105	77 - 113	2	11
Iron	9.0		0.500	8.95	4	mg/L		-7	65 - 149	0	21
Magnesium	0.16	J	2.50	2.76		mg/L		104	56 - 140	2	11
Manganese	0.84		0.500	1.38		mg/L		107	86 - 116	1	7
Potassium	ND		5.00	5.55		mg/L		111	83 - 131	3	7

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 570-142521-C-1-D MSD
Matrix: Water
Analysis Batch: 340130

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 339529

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	1.2	J	5.00	6.47		mg/L		105	73 - 127	1	9

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 570-341760/5-A
Matrix: Water
Analysis Batch: 341767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 341760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.075	0.029	mg/L		06/29/23 11:20	06/29/23 12:51	1

Lab Sample ID: LCS 570-341760/6-A
Matrix: Water
Analysis Batch: 341767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 341760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	0.500	0.500		mg/L		100	90 - 110

Lab Sample ID: LCSD 570-341760/7-A
Matrix: Water
Analysis Batch: 341767

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 341760

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	0.500	0.497		mg/L		99	90 - 110	1	20

Lab Sample ID: 570-142307-1 MS
Matrix: Water
Analysis Batch: 341767

Client Sample ID: PZ-4
Prep Type: Total/NA
Prep Batch: 341760

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	2.3		0.500	2.84	4	mg/L		110	90 - 110

Lab Sample ID: 570-142307-1 MSD
Matrix: Water
Analysis Batch: 341767

Client Sample ID: PZ-4
Prep Type: Total/NA
Prep Batch: 341760

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	2.3		0.500	2.82	4	mg/L		107	90 - 110	1	25

Method: 410.4 - COD

Lab Sample ID: MB 570-339377/3-A
Matrix: Water
Analysis Batch: 339418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 339377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		100	14	mg/L		06/21/23 16:51	06/21/23 18:32	1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 570-339377/4-A
Matrix: Water
Analysis Batch: 339418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 339377

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand			205	210		mg/L		103	90 - 110		

Lab Sample ID: LCSD 570-339377/5-A
Matrix: Water
Analysis Batch: 339418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 339377

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand			205	205		mg/L		100	90 - 110	2	20

Lab Sample ID: 570-142307-1 MS
Matrix: Water
Analysis Batch: 339418

Client Sample ID: PZ-4
Prep Type: Total/NA
Prep Batch: 339377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand	ND		205	210		mg/L		103	90 - 110		

Lab Sample ID: 570-142307-1 MSD
Matrix: Water
Analysis Batch: 339418

Client Sample ID: PZ-4
Prep Type: Total/NA
Prep Batch: 339377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		205	219		mg/L		107	90 - 110	4	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 570-342686/1
Matrix: Water
Analysis Batch: 342686

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		2.5	1.1	mg/L			07/03/23 15:04	1
Bicarbonate (as CaCO3)	ND		2.5	1.1	mg/L			07/03/23 15:04	1

Lab Sample ID: LCS 570-342686/2
Matrix: Water
Analysis Batch: 342686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity, Total (As CaCO3)			106	98.6		mg/L		93	78 - 110		

Lab Sample ID: LCSD 570-342686/3
Matrix: Water
Analysis Batch: 342686

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity, Total (As CaCO3)			106	99.0		mg/L		93	78 - 110	0	10

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 570-142307-1 DU
Matrix: Water
Analysis Batch: 342686

Client Sample ID: PZ-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total (As CaCO3)	330		330		mg/L		0.2	25
Bicarbonate (as CaCO3)	330		330		mg/L		0.2	25

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 570-339754/1
Matrix: Water
Analysis Batch: 339754

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	8.7	mg/L			06/22/23 15:22	1

Lab Sample ID: LCS 570-339754/2
Matrix: Water
Analysis Batch: 339754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1030		mg/L		103	84 - 108

Lab Sample ID: LCSD 570-339754/3
Matrix: Water
Analysis Batch: 339754

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1020		mg/L		102	84 - 108	1	10

Lab Sample ID: 570-142519-K-1 DU
Matrix: Water
Analysis Batch: 339754

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2400		2330		mg/L		1	10

Lab Sample ID: 570-142540-P-1 DU
Matrix: Water
Analysis Batch: 339754

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1300		1260		mg/L		0.6	10

Lab Sample ID: MB 570-339808/1
Matrix: Water
Analysis Batch: 339808

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	8.7	mg/L			06/22/23 17:31	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 570-339808/2
Matrix: Water
Analysis Batch: 339808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1010		mg/L		101	84 - 108		

Lab Sample ID: LCSD 570-339808/3
Matrix: Water
Analysis Batch: 339808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1010		mg/L		101	84 - 108	0	10

Lab Sample ID: 570-142576-D-2 DU
Matrix: Water
Analysis Batch: 339808

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	940			936		mg/L				0.2	10

Method: SM 4500 CO2 D - Carbon Dioxide and Forms of Alkalinity by Calculation

Lab Sample ID: 570-142307-1 DU
Matrix: Water
Analysis Batch: 342889

Client Sample ID: PZ-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbon dioxide	290			292		mg/L				0.09	25

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 570-339702/5
Matrix: Water
Analysis Batch: 339702

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.017	mg/L			06/22/23 13:15	1

Lab Sample ID: LCS 570-339702/7
Matrix: Water
Analysis Batch: 339702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			0.500	0.531		mg/L		106	70 - 130		

Lab Sample ID: LCSD 570-339702/8
Matrix: Water
Analysis Batch: 339702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			0.500	0.518		mg/L		104	70 - 130	3	8

Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: 570-142307-3 MS
Matrix: Water
Analysis Batch: 339702

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		0.500	0.539		mg/L		108	70 - 130

Lab Sample ID: 570-142307-3 MSD
Matrix: Water
Analysis Batch: 339702

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND		0.500	0.534		mg/L		107	70 - 130	1	20

Lab Sample ID: MB 570-340884/5
Matrix: Water
Analysis Batch: 340884

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.017	mg/L			06/27/23 10:31	1

Lab Sample ID: LCS 570-340884/6
Matrix: Water
Analysis Batch: 340884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.500	0.487		mg/L		97	70 - 130

Lab Sample ID: LCSD 570-340884/7
Matrix: Water
Analysis Batch: 340884

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.500	0.498		mg/L		100	70 - 130	2	8

Lab Sample ID: 570-142307-8 MS
Matrix: Water
Analysis Batch: 340884

Client Sample ID: LY-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND	F1	0.500	0.176	F1	mg/L		35	70 - 130

Lab Sample ID: 570-142307-8 MSD
Matrix: Water
Analysis Batch: 340884

Client Sample ID: LY-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND	F1	0.500	0.172	F1	mg/L		34	70 - 130	2	20

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 570-340204/33
Matrix: Water
Analysis Batch: 340204

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon, Total Organic	ND		0.50	0.26	mg/L			06/23/23 06:22	1

Lab Sample ID: LCS 570-340204/34
Matrix: Water
Analysis Batch: 340204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon, Total Organic			5.03	5.16		mg/L		103	85 - 115		

Lab Sample ID: LCSD 570-340204/35
Matrix: Water
Analysis Batch: 340204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic			5.03	5.18		mg/L		103	85 - 115	0	20

Lab Sample ID: 570-142342-L-10 MS ^1000
Matrix: Water
Analysis Batch: 340204

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon, Total Organic	1500		5030	6420		mg/L		97	31 - 145		

Lab Sample ID: 570-142342-L-10 MSD
Matrix: Water
Analysis Batch: 340204

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic	1500		5030	6410		mg/L		97	31 - 145	0	20

GC/MS VOA

Analysis Batch: 339518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	8260B	
570-142307-2	MW-13R	Total/NA	Water	8260B	
570-142307-5	DW-5	Total/NA	Water	8260B	
570-142307-6	DW-3	Total/NA	Water	8260B	
570-142307-9	Field Blank	Total/NA	Water	8260B	
570-142307-10	Trip Blank	Total/NA	Water	8260B	
MB 570-339518/7	Method Blank	Total/NA	Water	8260B	
LCS 570-339518/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-339518/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 339901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-3	MW-5	Total/NA	Water	8260B	
570-142307-4	MW-1	Total/NA	Water	8260B	
570-142307-7	Combined Subdrain	Total/NA	Water	8260B	
570-142307-8	LY-7	Total/NA	Water	8260B	
MB 570-339901/7	Method Blank	Total/NA	Water	8260B	
LCS 570-339901/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-339901/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 340348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-3 - RA	MW-5	Total/NA	Water	8260B	
570-142307-4 - RA	MW-1	Total/NA	Water	8260B	
570-142307-7 - RA	Combined Subdrain	Total/NA	Water	8260B	
570-142307-8 - RA	LY-7	Total/NA	Water	8260B	
MB 570-340348/7	Method Blank	Total/NA	Water	8260B	
LCS 570-340348/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-340348/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 339721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	3510C	
570-142307-2	MW-13R	Total/NA	Water	3510C	
570-142307-3	MW-5	Total/NA	Water	3510C	
570-142307-4	MW-1	Total/NA	Water	3510C	
570-142307-5	DW-5	Total/NA	Water	3510C	
570-142307-6	DW-3	Total/NA	Water	3510C	
570-142307-7	Combined Subdrain	Total/NA	Water	3510C	
570-142307-8	LY-7	Total/NA	Water	3510C	
MB 570-339721/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-339721/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-339721/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 339889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	8270C SIM ID	339721
570-142307-2	MW-13R	Total/NA	Water	8270C SIM ID	339721
570-142307-3	MW-5	Total/NA	Water	8270C SIM ID	339721

GC/MS Semi VOA (Continued)

Analysis Batch: 339889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-4	MW-1	Total/NA	Water	8270C SIM ID	339721
570-142307-5	DW-5	Total/NA	Water	8270C SIM ID	339721
570-142307-6	DW-3	Total/NA	Water	8270C SIM ID	339721
570-142307-7	Combined Subdrain	Total/NA	Water	8270C SIM ID	339721
570-142307-8	LY-7	Total/NA	Water	8270C SIM ID	339721
MB 570-339721/1-A	Method Blank	Total/NA	Water	8270C SIM ID	339721
LCS 570-339721/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	339721
LCSD 570-339721/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	339721

HPLC/IC

Analysis Batch: 338708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	300.0	
570-142307-1 - DL	PZ-4	Total/NA	Water	300.0	
570-142307-2	MW-13R	Total/NA	Water	300.0	
570-142307-2 - DL	MW-13R	Total/NA	Water	300.0	
570-142307-3	MW-5	Total/NA	Water	300.0	
570-142307-3 - DL	MW-5	Total/NA	Water	300.0	
570-142307-4	MW-1	Total/NA	Water	300.0	
570-142307-4 - DL	MW-1	Total/NA	Water	300.0	
570-142307-5	DW-5	Total/NA	Water	300.0	
570-142307-5 - DL	DW-5	Total/NA	Water	300.0	
570-142307-6	DW-3	Total/NA	Water	300.0	
570-142307-6 - DL	DW-3	Total/NA	Water	300.0	
570-142307-7	Combined Subdrain	Total/NA	Water	300.0	
570-142307-8	LY-7	Total/NA	Water	300.0	
570-142307-8 - DL	LY-7	Total/NA	Water	300.0	
MB 570-338708/5	Method Blank	Total/NA	Water	300.0	
LCS 570-338708/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-338708/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-142240-I-4 MS	Matrix Spike	Total/NA	Water	300.0	
570-142240-I-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 338709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	300.0	
570-142307-2	MW-13R	Total/NA	Water	300.0	
570-142307-3	MW-5	Total/NA	Water	300.0	
570-142307-4	MW-1	Total/NA	Water	300.0	
570-142307-5	DW-5	Total/NA	Water	300.0	
570-142307-6	DW-3	Total/NA	Water	300.0	
570-142307-7	Combined Subdrain	Total/NA	Water	300.0	
570-142307-8	LY-7	Total/NA	Water	300.0	
MB 570-338709/5	Method Blank	Total/NA	Water	300.0	
LCS 570-338709/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-338709/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-142240-I-4 MS	Matrix Spike	Total/NA	Water	300.0	
570-142240-I-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

HPLC/IC

Analysis Batch: 339994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-7 - DL	Combined Subdrain	Total/NA	Water	300.0	
MB 570-339994/5	Method Blank	Total/NA	Water	300.0	
LCS 570-339994/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-339994/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-142702-I-2 MS - DL	Matrix Spike	Total/NA	Water	300.0	
570-142702-I-2 MSD - DL	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 339131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total Recoverable	Water	3005A	
570-142307-2	MW-13R	Total Recoverable	Water	3005A	
570-142307-3	MW-5	Total Recoverable	Water	3005A	
570-142307-4	MW-1	Total Recoverable	Water	3005A	
570-142307-5	DW-5	Total Recoverable	Water	3005A	
570-142307-6	DW-3	Total Recoverable	Water	3005A	
570-142307-7	Combined Subdrain	Total Recoverable	Water	3005A	
MB 570-339131/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 570-339131/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 570-339131/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
570-142342-S-4-B MS	Matrix Spike	Total/NA	Water	3005A	
570-142342-S-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	3005A	

Prep Batch: 339529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-8	LY-7	Total Recoverable	Water	3005A	
MB 570-339529/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 570-339529/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 570-339529/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
570-142521-C-1-C MS	Matrix Spike	Total Recoverable	Water	3005A	
570-142521-C-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 339665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total Recoverable	Water	6010B	339131
570-142307-2	MW-13R	Total Recoverable	Water	6010B	339131
570-142307-3	MW-5	Total Recoverable	Water	6010B	339131
570-142307-4	MW-1	Total Recoverable	Water	6010B	339131
570-142307-5	DW-5	Total Recoverable	Water	6010B	339131
570-142307-6	DW-3	Total Recoverable	Water	6010B	339131
570-142307-7	Combined Subdrain	Total Recoverable	Water	6010B	339131
MB 570-339131/1-A	Method Blank	Total Recoverable	Water	6010B	339131
LCS 570-339131/2-A	Lab Control Sample	Total Recoverable	Water	6010B	339131
LCSD 570-339131/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	339131
570-142342-S-4-B MS	Matrix Spike	Total/NA	Water	6010B	339131
570-142342-S-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	339131

Analysis Batch: 339776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-8	LY-7	Total Recoverable	Water	6010B	339529

Metals (Continued)

Analysis Batch: 339776 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-339529/1-A	Method Blank	Total Recoverable	Water	6010B	339529
LCS 570-339529/2-A	Lab Control Sample	Total Recoverable	Water	6010B	339529
LCSD 570-339529/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	339529
570-142521-C-1-C MS	Matrix Spike	Total Recoverable	Water	6010B	339529
570-142521-C-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	339529

Analysis Batch: 340130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-8	LY-7	Total Recoverable	Water	6010B	339529
MB 570-339529/1-A	Method Blank	Total Recoverable	Water	6010B	339529
LCS 570-339529/2-A	Lab Control Sample	Total Recoverable	Water	6010B	339529
LCSD 570-339529/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	339529
570-142521-C-1-C MS	Matrix Spike	Total Recoverable	Water	6010B	339529
570-142521-C-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	339529

General Chemistry

Prep Batch: 339377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	410.4	
570-142307-2	MW-13R	Total/NA	Water	410.4	
570-142307-3	MW-5	Total/NA	Water	410.4	
570-142307-4	MW-1	Total/NA	Water	410.4	
570-142307-5	DW-5	Total/NA	Water	410.4	
570-142307-6	DW-3	Total/NA	Water	410.4	
570-142307-7	Combined Subdrain	Total/NA	Water	410.4	
570-142307-8	LY-7	Total/NA	Water	410.4	
MB 570-339377/3-A	Method Blank	Total/NA	Water	410.4	
LCS 570-339377/4-A	Lab Control Sample	Total/NA	Water	410.4	
LCSD 570-339377/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	
570-142307-1 MS	PZ-4	Total/NA	Water	410.4	
570-142307-1 MSD	PZ-4	Total/NA	Water	410.4	

Analysis Batch: 339418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	410.4	339377
570-142307-2	MW-13R	Total/NA	Water	410.4	339377
570-142307-3	MW-5	Total/NA	Water	410.4	339377
570-142307-4	MW-1	Total/NA	Water	410.4	339377
570-142307-5	DW-5	Total/NA	Water	410.4	339377
570-142307-6	DW-3	Total/NA	Water	410.4	339377
570-142307-7	Combined Subdrain	Total/NA	Water	410.4	339377
570-142307-8	LY-7	Total/NA	Water	410.4	339377
MB 570-339377/3-A	Method Blank	Total/NA	Water	410.4	339377
LCS 570-339377/4-A	Lab Control Sample	Total/NA	Water	410.4	339377
LCSD 570-339377/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	339377
570-142307-1 MS	PZ-4	Total/NA	Water	410.4	339377
570-142307-1 MSD	PZ-4	Total/NA	Water	410.4	339377

General Chemistry

Analysis Batch: 339702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	SM 4500 S2 D	
570-142307-2	MW-13R	Total/NA	Water	SM 4500 S2 D	
570-142307-3	MW-5	Total/NA	Water	SM 4500 S2 D	
570-142307-4	MW-1	Total/NA	Water	SM 4500 S2 D	
570-142307-5	DW-5	Total/NA	Water	SM 4500 S2 D	
570-142307-6	DW-3	Total/NA	Water	SM 4500 S2 D	
570-142307-7	Combined Subdrain	Total/NA	Water	SM 4500 S2 D	
MB 570-339702/5	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 570-339702/7	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 570-339702/8	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
570-142307-3 MS	MW-5	Total/NA	Water	SM 4500 S2 D	
570-142307-3 MSD	MW-5	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 339754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	SM 2540C	
570-142307-2	MW-13R	Total/NA	Water	SM 2540C	
570-142307-3	MW-5	Total/NA	Water	SM 2540C	
570-142307-4	MW-1	Total/NA	Water	SM 2540C	
MB 570-339754/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-339754/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-339754/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-142519-K-1 DU	Duplicate	Total/NA	Water	SM 2540C	
570-142540-P-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 339808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-5	DW-5	Total/NA	Water	SM 2540C	
570-142307-6	DW-3	Total/NA	Water	SM 2540C	
570-142307-7	Combined Subdrain	Total/NA	Water	SM 2540C	
570-142307-8	LY-7	Total/NA	Water	SM 2540C	
MB 570-339808/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-339808/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-339808/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-142576-D-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 340204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	SM 5310D	
570-142307-2	MW-13R	Total/NA	Water	SM 5310D	
570-142307-3	MW-5	Total/NA	Water	SM 5310D	
570-142307-4	MW-1	Total/NA	Water	SM 5310D	
570-142307-5	DW-5	Total/NA	Water	SM 5310D	
570-142307-6	DW-3	Total/NA	Water	SM 5310D	
570-142307-7	Combined Subdrain	Total/NA	Water	SM 5310D	
570-142307-8	LY-7	Total/NA	Water	SM 5310D	
MB 570-340204/33	Method Blank	Total/NA	Water	SM 5310D	
LCS 570-340204/34	Lab Control Sample	Total/NA	Water	SM 5310D	
LCSD 570-340204/35	Lab Control Sample Dup	Total/NA	Water	SM 5310D	
570-142342-L-10 MS ^1000	Matrix Spike	Total/NA	Water	SM 5310D	
570-142342-L-10 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310D	

General Chemistry

Analysis Batch: 340884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-8	LY-7	Total/NA	Water	SM 4500 S2 D	
MB 570-340884/5	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 570-340884/6	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 570-340884/7	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
570-142307-8 MS	LY-7	Total/NA	Water	SM 4500 S2 D	
570-142307-8 MSD	LY-7	Total/NA	Water	SM 4500 S2 D	

Prep Batch: 341760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	Distill/Ammonia	
570-142307-2	MW-13R	Total/NA	Water	Distill/Ammonia	
570-142307-3	MW-5	Total/NA	Water	Distill/Ammonia	
570-142307-4	MW-1	Total/NA	Water	Distill/Ammonia	
570-142307-5	DW-5	Total/NA	Water	Distill/Ammonia	
570-142307-6	DW-3	Total/NA	Water	Distill/Ammonia	
570-142307-7	Combined Subdrain	Total/NA	Water	Distill/Ammonia	
570-142307-8	LY-7	Total/NA	Water	Distill/Ammonia	
MB 570-341760/5-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 570-341760/6-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
LCSD 570-341760/7-A	Lab Control Sample Dup	Total/NA	Water	Distill/Ammonia	
570-142307-1 MS	PZ-4	Total/NA	Water	Distill/Ammonia	
570-142307-1 MSD	PZ-4	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 341767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	350.1	341760
570-142307-2	MW-13R	Total/NA	Water	350.1	341760
570-142307-3	MW-5	Total/NA	Water	350.1	341760
570-142307-4	MW-1	Total/NA	Water	350.1	341760
570-142307-5	DW-5	Total/NA	Water	350.1	341760
570-142307-6	DW-3	Total/NA	Water	350.1	341760
570-142307-7	Combined Subdrain	Total/NA	Water	350.1	341760
570-142307-8	LY-7	Total/NA	Water	350.1	341760
MB 570-341760/5-A	Method Blank	Total/NA	Water	350.1	341760
LCS 570-341760/6-A	Lab Control Sample	Total/NA	Water	350.1	341760
LCSD 570-341760/7-A	Lab Control Sample Dup	Total/NA	Water	350.1	341760
570-142307-1 MS	PZ-4	Total/NA	Water	350.1	341760
570-142307-1 MSD	PZ-4	Total/NA	Water	350.1	341760

Analysis Batch: 342686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	SM 2320B	
570-142307-2	MW-13R	Total/NA	Water	SM 2320B	
570-142307-3	MW-5	Total/NA	Water	SM 2320B	
570-142307-4	MW-1	Total/NA	Water	SM 2320B	
570-142307-5	DW-5	Total/NA	Water	SM 2320B	
570-142307-6	DW-3	Total/NA	Water	SM 2320B	
570-142307-7	Combined Subdrain	Total/NA	Water	SM 2320B	
570-142307-8	LY-7	Total/NA	Water	SM 2320B	
MB 570-342686/1	Method Blank	Total/NA	Water	SM 2320B	
LCS 570-342686/2	Lab Control Sample	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 342686 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-342686/3	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
570-142307-1 DU	PZ-4	Total/NA	Water	SM 2320B	

Analysis Batch: 342889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-142307-1	PZ-4	Total/NA	Water	SM 4500 CO2 D	
570-142307-2	MW-13R	Total/NA	Water	SM 4500 CO2 D	
570-142307-3	MW-5	Total/NA	Water	SM 4500 CO2 D	
570-142307-4	MW-1	Total/NA	Water	SM 4500 CO2 D	
570-142307-5	DW-5	Total/NA	Water	SM 4500 CO2 D	
570-142307-6	DW-3	Total/NA	Water	SM 4500 CO2 D	
570-142307-7	Combined Subdrain	Total/NA	Water	SM 4500 CO2 D	
570-142307-8	LY-7	Total/NA	Water	SM 4500 CO2 D	
570-142307-1 DU	PZ-4	Total/NA	Water	SM 4500 CO2 D	

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: PZ-4
Lab Sample ID: 570-142307-1
Date Collected: 06/20/23 11:55
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	339518	06/22/23 12:10	P3GT	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			131.7 mL	10 mL	339721	06/22/23 14:03	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339889	06/23/23 13:57	UFLE	EET CAL 4
	Instrument ID: GCMS99									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338708	06/20/23 23:45	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338709	06/20/23 23:45	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	338708	06/21/23 03:07	PS	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	339131	06/21/23 06:54	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339665	06/22/23 10:16	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:22	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	342686	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	339754	06/22/23 15:22	ZL7L	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			342889	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	339702	06/22/23 13:15	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	340204	06/23/23 14:59	ZL4M	EET CAL 4
	Instrument ID: TOC8									

Client Sample ID: MW-13R
Lab Sample ID: 570-142307-2
Date Collected: 06/20/23 09:32
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	339518	06/22/23 12:35	P3GT	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			132.8 mL	10 mL	339721	06/22/23 14:03	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339889	06/23/23 14:12	UFLE	EET CAL 4
	Instrument ID: GCMS99									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338708	06/21/23 00:01	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338709	06/21/23 00:01	PS	EET CAL 4
	Instrument ID: IC7									

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: MW-13R
Lab Sample ID: 570-142307-2
Date Collected: 06/20/23 09:32
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0	DL	20	4 mL	4 mL	338708	06/21/23 03:24	PS	EET CAL 4
Total Recoverable	Prep	3005A			50 mL	50 mL	339131	06/21/23 06:54	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339665	06/22/23 10:18	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:24	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	342686	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	339754	06/22/23 15:22	ZL7L	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			342889	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 4500 S2 D		500	7.5 mL	7.5 mL	339702	06/22/23 13:15	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		20	40 mL	40 mL	340204	06/23/23 15:25	ZL4M	EET CAL 4
	Instrument ID: TOC8									

Client Sample ID: MW-5
Lab Sample ID: 570-142307-3
Date Collected: 06/20/23 08:15
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	339901	06/23/23 13:13	N1A	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	340348	06/26/23 08:58	N1A	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			130.8 mL	10 mL	339721	06/22/23 14:03	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339889	06/23/23 14:27	UFLE	EET CAL 4
	Instrument ID: GCMS99									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338708	06/21/23 00:18	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338709	06/21/23 00:18	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0	DL	20	4 mL	4 mL	338708	06/21/23 03:41	PS	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	339131	06/21/23 06:54	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339665	06/22/23 10:21	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:25	UXCH	EET CAL 4
	Instrument ID: ACA2									

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: MW-5
Date Collected: 06/20/23 08:15
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	342686	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	339754	06/22/23 15:22	ZL7L	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			342889	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	339702	06/22/23 13:15	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		20	40 mL	40 mL	340204	06/23/23 16:03	ZL4M	EET CAL 4
	Instrument ID: TOC8									

Client Sample ID: MW-1
Date Collected: 06/20/23 09:30
Date Received: 06/20/23 19:00

Lab Sample ID: 570-142307-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	339901	06/23/23 13:38	N1A	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	340348	06/26/23 09:24	N1A	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			130.1 mL	10 mL	339721	06/22/23 14:03	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339889	06/23/23 14:43	UFLE	EET CAL 4
	Instrument ID: GCMS99									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338708	06/21/23 00:35	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338709	06/21/23 00:35	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0	DL	20	4 mL	4 mL	338708	06/21/23 03:58	PS	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	339131	06/21/23 06:54	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339665	06/22/23 10:23	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:27	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	342686	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	40 mL	1000 mL	339754	06/22/23 15:22	ZL7L	EET CAL 4
	Instrument ID: BAL100									

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: MW-1
Lab Sample ID: 570-142307-4
Date Collected: 06/20/23 09:30
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CO2 D		1			342889	07/03/23 15:04	UAPD	EET CAL 4
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	339702	06/22/23 13:15	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		20	40 mL	40 mL	340204	06/23/23 16:26	ZL4M	EET CAL 4
	Instrument ID: TOC8									

Client Sample ID: DW-5
Lab Sample ID: 570-142307-5
Date Collected: 06/20/23 10:40
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	339518	06/22/23 13:50	P3GT	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			123.5 mL	10 mL	339721	06/22/23 14:03	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339889	06/23/23 14:58	UFLE	EET CAL 4
	Instrument ID: GCMS99									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338708	06/21/23 00:52	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338709	06/21/23 00:52	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0	DL	20	4 mL	4 mL	338708	06/21/23 04:14	PS	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	339131	06/21/23 06:54	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339665	06/22/23 10:26	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:28	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	342686	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	339808	06/22/23 17:31	ZL7L	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			342889	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	339702	06/22/23 13:16	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		4	40 mL	40 mL	340204	06/23/23 16:52	ZL4M	EET CAL 4
	Instrument ID: TOC8									

Client Sample ID: DW-3
Lab Sample ID: 570-142307-6

Date Collected: 06/20/23 12:05
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	339518	06/22/23 14:14	P3GT	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			128.2 mL	10 mL	339721	06/22/23 14:03	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339889	06/23/23 15:14	UFLE	EET CAL 4
	Instrument ID: GCMS99									
Total/NA	Analysis	300.0		1	4 mL	4 mL	338708	06/21/23 01:09	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0		1	4 mL	4 mL	338709	06/21/23 01:09	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0	DL	20	4 mL	4 mL	338708	06/21/23 04:31	PS	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	339131	06/21/23 06:54	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339665	06/22/23 10:28	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:30	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	342686	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	339808	06/22/23 17:31	ZL7L	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			342889	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	339702	06/22/23 13:16	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		1	40 mL	40 mL	340204	06/23/23 17:30	ZL4M	EET CAL 4
	Instrument ID: TOC8									

Client Sample ID: Combined Subdrain
Lab Sample ID: 570-142307-7

Date Collected: 06/20/23 10:50
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	339901	06/23/23 14:03	N1A	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	340348	06/26/23 09:49	N1A	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			124.7 mL	10 mL	339721	06/22/23 14:03	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339889	06/23/23 15:29	UFLE	EET CAL 4
	Instrument ID: GCMS99									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338708	06/21/23 01:25	PS	EET CAL 4
	Instrument ID: IC7									

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: Combined Subdrain
Lab Sample ID: 570-142307-7
Date Collected: 06/20/23 10:50
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	4 mL	4 mL	338709	06/21/23 01:25	PS	EET CAL 4
Total/NA	Analysis	300.0	DL	40	4 mL	4 mL	339994	06/23/23 16:55	UIP1	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	339131	06/21/23 06:54	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339665	06/22/23 10:30	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		1	5 mL	5 mL	341767	06/29/23 13:31	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	342686	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	40 mL	1000 mL	339808	06/22/23 17:31	ZL7L	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			342889	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	339702	06/22/23 13:16	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		20	40 mL	40 mL	340204	06/23/23 17:53	ZL4M	EET CAL 4
	Instrument ID: TOC8									

Client Sample ID: LY-7
Lab Sample ID: 570-142307-8
Date Collected: 06/20/23 08:50
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	339901	06/23/23 14:29	N1A	EET CAL 4
	Instrument ID: GCMSL									
Total/NA	Analysis	8260B	RA	1	20 mL	20 mL	340348	06/26/23 10:14	N1A	EET CAL 4
	Instrument ID: GCMSUU									
Total/NA	Prep	3510C			129 mL	10 mL	339721	06/22/23 14:03	RY4P	EET CAL 4
Total/NA	Analysis	8270C SIM ID		1	1 mL	1 mL	339889	06/23/23 15:45	UFLE	EET CAL 4
	Instrument ID: GCMS99									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338708	06/21/23 01:42	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0		2	4 mL	4 mL	338709	06/21/23 01:42	PS	EET CAL 4
	Instrument ID: IC7									
Total/NA	Analysis	300.0	DL	40	4 mL	4 mL	338708	06/21/23 02:16	PS	EET CAL 4
	Instrument ID: IC7									
Total Recoverable	Prep	3005A			50 mL	50 mL	339529	06/22/23 08:11	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		1			339776	06/22/23 15:05	VZ0K	EET CAL 4
	Instrument ID: ICP11									

Lab Chronicle

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Client Sample ID: LY-7
Lab Sample ID: 570-142307-8
Date Collected: 06/20/23 08:50
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	339529	06/22/23 08:11	JP8N	EET CAL 4
Total Recoverable	Analysis	6010B		5			340130	06/23/23 13:53	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	Distill/Ammonia			5 mL	5 mL	341760	06/29/23 11:20	UXCH	EET CAL 4
Total/NA	Analysis	350.1		2	5 mL	5 mL	341767	06/29/23 13:33	UXCH	EET CAL 4
	Instrument ID: ACA2									
Total/NA	Prep	410.4			2 mL	2 mL	339377	06/21/23 16:51	ZL4M	EET CAL 4
Total/NA	Analysis	410.4		1	2 mL	2 mL	339418	06/21/23 18:32	ZL4M	EET CAL 4
	Instrument ID: UV10									
Total/NA	Analysis	SM 2320B		1	50 mL	50 mL	342686	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 2540C		1	20 mL	1000 mL	339808	06/22/23 17:31	ZL7L	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 CO2 D		1			342889	07/03/23 15:04	UAPD	EET CAL 4
	Instrument ID: PH1									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	340884	06/27/23 10:31	GG0B	EET CAL 4
	Instrument ID: UV11									
Total/NA	Analysis	SM 5310D		100	40 mL	40 mL	340204	06/23/23 18:19	ZL4M	EET CAL 4
	Instrument ID: TOC8									

Client Sample ID: Field Blank
Lab Sample ID: 570-142307-9
Date Collected: 06/20/23 00:00
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	339518	06/22/23 11:45	P3GT	EET CAL 4
	Instrument ID: GCMSUU									

Client Sample ID: Trip Blank
Lab Sample ID: 570-142307-10
Date Collected: 06/20/23 00:00
Matrix: Water
Date Received: 06/20/23 19:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	339518	06/22/23 11:20	P3GT	EET CAL 4
	Instrument ID: GCMSUU									

Laboratory References:
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	Los Angeles County Sanitation Districts	10109	07-31-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Kansas	NELAP	E-10420	07-31-23
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	05-24-23 *
Washington	State	C916-18	10-11-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
350.1	Nitrogen, Ammonia	EPA	EET CAL 4
410.4	COD	EPA	EET CAL 4
SM 2320B	Alkalinity	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	EET CAL 4
SM 4500 S2 D	Sulfide, Total	SM	EET CAL 4
SM 5310D	Organic Carbon, Total (TOC)	SM	EET CAL 4
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
410.4	COD	EPA	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
Distill/Ammonia	Distillation, Ammonia	None	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Geo-Logic Associates
Job ID: 570-142307-1
Project/Site: Republic Sunshine Canyon 2023 GW/Leachat

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-142307-1	PZ-4	Water	06/20/23 11:55	06/20/23 19:00
570-142307-2	MW-13R	Water	06/20/23 09:32	06/20/23 19:00
570-142307-3	MW-5	Water	06/20/23 08:15	06/20/23 19:00
570-142307-4	MW-1	Water	06/20/23 09:30	06/20/23 19:00
570-142307-5	DW-5	Water	06/20/23 10:40	06/20/23 19:00
570-142307-6	DW-3	Water	06/20/23 12:05	06/20/23 19:00
570-142307-7	Combined Subdrain	Water	06/20/23 10:50	06/20/23 19:00
570-142307-8	LY-7	Water	06/20/23 08:50	06/20/23 19:00
570-142307-9	Field Blank	Water	06/20/23 00:00	06/20/23 19:00
570-142307-10	Trip Blank	Water	06/20/23 00:00	06/20/23 19:00

Loc: 570
142307

Eurofins Calscience
2841 Dow Ave., Suite 100
Tustin CA 92780
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins | Calscience

Client Information
Client Contact: Kyle Welchans
Company: Geo-Logic Associates
Address: 11415 W Bernardo Ct
City: San Diego
State, Zip: CA 92127
Phone: 858 - 451-1136
Email: kwelchans@geo-logic.com
Project Name: Replublic Services, Inc
Site: Sunshine Canyon Landfill

Sampler:
Phone: 858 - 451-1136
Lab PM: Rossina Tomova
E-Mail:
Carrier Tracking No(s):
COC No:
Page: 1 of 1
Job #:
Due Date Requested:
TAT Requested (days):
PO #:
WO #:
Project #: S022. 1227
SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	EPA 8260B VOCs	EPA 8270 - 1,4 Dioxane	EPA 310.1 - Total Alkalinity and Bicarbonate	EPA 350.2 - Ammonia as N	EPA 410.4 - COD	EPA 300.0 - Chloride, Bromide, Nitrate-N, Sulfate	EPA 6010B - Total B, Ca, Fe, Mg, Mn, K, Na	EPA 160.1 Total Dissolved Solids	EPA 415.1 - Total Organic Carbon	EPA 340.2 - Fluoride	EPA 376.2 - Sulfide	SM-4500-CO2C - Carbon Dioxide	Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
1 PZ-4	6/20/23	1155	G	GW			X	X	X	X	X	X	X	X	X	X	X			
2 MW-13R		0932					X	X	X	X	X	X	X	X	X	X	X			
3 MW-5		0815					X	X	X	X	X	X	X	X	X	X	X			
4 MW-1		0930					X	X	X	X	X	X	X	X	X	X	X			
5 DW-5		1040					X	X	X	X	X	X	X	X	X	X	X			
6 DW-3		1205					X	X	X	X	X	X	X	X	X	X	X			
7 COMBINED SUBDRAIN		1050					X	X	X	X	X	X	X	X	X	X	X			
8 LY-7		0850					X	X	X	X	X	X	X	X	X	X	X			
9 FIELD BLANK		—		LAB H2O			X													
10 TRIP BLANK		—		LAB H2O			X													

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed
☐ Return To Client ☐ Disposal

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

570-142307 Chain of Custody

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 6-20-23 1325	Company GLA	Received by:	Date/Time: 6/20/23 1325	Company EC		
Relinquished by:	Date/Time: 6/20/23 1900	Company EC	Received by:	Date/Time: 6/20/23 19:00	Company EC		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

1.7/1.9 2.1/2.3 SC6

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 570-142307-1

Login Number: 142307
List Number: 1
Creator: Ortiz-Luis, Michael

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

MONTHLY VADOSE ZONE GAS MONITORING REPORTS

Geo-Logic ASSOCIATES

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: Marcelino B | TEMPERATURE: 64 | BARO. PRESSURE: 82.4

GEM SERIAL #: G506081 | WEATHER CONDITIONS: Sunny

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	1/24/23	7:36	0.08	0.0	0.1	21.0	78.9	2	
B-29	1/24/23	7:48	0.09	0.0	0.1	21.0	78.9	2	
C-45	1/24/23	7:51	-1.08	0.0	0.1	20.9	79.0	3	
D-61	1/24/23	7:56	-2.31	0.0	0.1	20.9	79.0	4	
E-77	1/24/23	8:00	-22.37	0.0	0.1	20.9	79.0	4	
214									
A-13	1/24/23	8:10	0.08	0.0	0.2	20.7	79.1	2	
B-30	1/24/23	8:19	-14.89	0.0	0.1	20.8	79.1	2	
C-48	1/24/23	8:20	-20.37	0.0	1.9	20.3	77.8	3	
215									
A-13	1/24/23	8:28	-0.19	0.0	0.1	20.7	79.2	2	
B-30	1/24/23	8:30	-0.14	0.0	4.5	11.6	83.9	2	
C-47	1/24/23	8:33	0.03	0.0	0.1	20.7	79.2	3	
D-64	1/24/23	8:37	-0.04	0.0	0.5	20.0	79.6	4	
E-81	1/24/23	8:42	-0.65	0.0	3.5	13.6	82.6	4	
216									
A-14	1/24/23	9:00	-0.73	0.0	0.1	20.4	79.5	2	
B-43	1/24/23	9:05	0.09	0.0	0.1	20.4	79.5	2	
C-62	1/24/23	9:10	-0.27	0.0	0.1	20.4	79.5	3	
D-86	1/24/23	9:15	-0.25	0.0	0.1	20.3	79.6	4	
E-110	1/24/23	9:20	0.00	0.0	0.1	20.3	79.6	4	
217									
A-13	1/24/23	9:41	0.05	0.0	9.2	10.0	80.8	2	
B-30	1/24/23	9:44	0.03	0.0	4.6	7.8	85.6	2	
218R									
A-11	1/24/23	10:44	-1.61	0.0	18.5	0.0	81.5	2	
B-26.5	1/24/23	10:46	0.02	0.0	2.0	16.3	81.7	2	
B-30	1/24/23	10:48	-0.22	0.0	82.0	0.6	17.4	2	
219									
A-13	1/24/23	10:13	0.77	0.0	1.5	18.6	79.9	2	
B-64	1/24/23	10:16	-0.01	0.0	9.4	4.2	86.4	2	
C-115	1/24/23	10:19	-0.32	0.0	2.0	16.9	81.1	3	
D-166	1/24/23	10:22	-0.38	0.0	0.9	19.2	79.9	4	
E-217	1/24/23	10:27	0.03	0.0	4.9	12.2	82.9	4	

SCS SIGNATURE: _____

LEA SIGNATURE _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	1/24/23	11:14	+0.05	0.0	1.1	17.4	81.5	2	
B-40	1/24/23	11:15	-0.16	0.0	0.2	19.7	80.1	2	
C-87	1/24/23	11:17	+0.05	0.0	0.1	19.9	79.9	3	
D-124	1/24/23	11:20	+0.04	0.0	0.0	20.2	79.7	4	
E-158	1/24/23	11:24	+0.24	0.0	0.1	20.4	79.5	4	
220B									
A-14	1/24/23	10:32	+0.08	0.0	0.1	18.6	81.3	2	
B-38	1/24/23	10:34	-0.05	0.0	0.1	18.9	81.0	2	
C-62	1/24/23	10:36	-0.05	0.0	4.0	11.6	84.4	3	
D-86	1/24/23	10:39	-0.46	0.0	3.8	11.6	84.6	4	
E-110	1/24/23	10:42	-0.10	0.0	3.9	11.9	84.2	4	
221									
A-13	1/24/23	9:08	+0.05	0.0	0.1	20.4	79.6	2	
B-56	1/24/23	9:10	+0.04	0.0	0.9	19.9	79.2	2	
C-99	1/24/23	9:12	-0.33	0.0	2.5	17.4	80.2	3	
D-142	1/24/23	9:15	-0.30	0.0	0.1	20.0	79.9	4	
E-185	1/24/23	9:19	+0.06	0.0	1.1	19.0	79.9	4	
222									
A-13	1/24/23	9:50	+0.06	0.0	2.8	16.6	80.6	2	
B-54.8	1/24/23	9:52	-0.02	0.0	0.1	19.8	80.1	2	
C-96.5	1/24/23	9:53	+0.07	0.0	0.3	19.5	80.2	3	
D-138.3	1/24/23	9:55	-0.19	0.0	5.5	13.9	80.7	4	
E-180	1/24/23	9:59	-2.33	0.0	3.6	15.6	80.8	4	
223									
A-13	1/24/23	8:36	+0.10	0.0	1.1	19.5	79.3	2	
B-37.5	1/24/23	8:37	+0.14	0.0	2.0	16.7	81.4	2	
C-62	1/24/23	8:39	-0.02	0.0	0.2	20.2	79.7	3	
D-86.5	1/24/23	8:41	+0.05	0.0	1.3	17.8	80.9	4	
E-111	1/24/23	8:44	-0.16	0.0	0.7	19.1	80.2	4	
224									
A-13	1/24/23	7:51	-0.06	0.0	0.1	20.6	79.3	2	
B-67.5	1/24/23	7:53	-0.85	0.0	0.1	20.8	79.1	2	
C-122	1/24/23	7:54	-0.61	0.0	0.1	20.9	79.0	3	
D-177.5	1/24/23	7:58	-15.22	0.0	0.1	20.9	79.0	4	
E-232	1/24/23	8:06	-11.52	0.0	0.1	20.9	79.0	4	

SCS SINGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	1/24	9:46	-.35	0.0	1.3	20.2	78.5	2	
B-72	1/24	9:48	-.40	0.0	0.4	20.1	79.5	2	
C-1131	1/24	9:52	-.21	0.0	0.2	20.7	79.2	3	
D-190	1/24	9:57	-.19	0.0	0.1	20.6	79.3	4	
E-244	1/24	10:01	-.37	0.0	0.1	20.4	79.4	4	
226									
A-13	1/24	8:21	-.06	0.0	0.1	20.5	79.4	2	
B-64	1/24	8:25	-11.73	0.0	0.1	20.9	79.5	2	
C-114	1/24	8:28	-12.90	0.0	0.1	20.4	79.5	3	
D-164	1/24	8:33	-12.69	0.0	0.1	20.5	79.4	4	
E-208	1/24	8:38	-13.59	0.0	0.2	20.6	79.2	4	
227									
A-13	1/24	8:46	-.15	0.0	0.2	20.4	79.4	2	
B-48.7	1/24	8:49	-2.47	0.0	0.1	20.4	79.5	2	
C-84.4	1/24	8:52	-1.92	0.0	0.1	20.3	79.7	3	
D-114	1/24	8:57	-2.26	0.0	0.1	20.1	79.8	4	
E-115.7	1/24	9:02	-1.15	0.0	0.3	19.5	80.2	4	
228									
A-13	1/24	9:17	-.13	0.0	0.3	19.5	80.2	2	
B-63	1/24	9:19	-.27	0.0	0.1	20.0	79.9	2	
C-113	1/24	9:21	-1.62	0.0	0.7	19.8	79.5	3	
D-163	1/24	9:26	-.65	0.0	0.1	20.7	79.2	4	
E-213	1/24	9:30	-1.71	0.0	1.3	20.2	78.5	4	
229									
A-13	1/24	7:44	-.48	0.0	1.5	17.3	81.1	2	
B-48.7	1/24	7:48	-.12	0.0	0.2	20.9	78.9	2	
C-84.4	1/24	7:53	-.10	0.0	0.2	20.9	78.9	3	
D-114	1/24	7:58	-19.01	0.0	1.0	19.2	79.9	4	
E-155.7	1/24	8:05	-.14	0.0	0.1	20.9	78.9	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241									
A-13	11/24/23	11:02	-3.25	0.0	1.6	16.0	82.4	2	
B-28	11/24/23	11:05	1.42	0.0	0.1	20.2	79.7	2	
C-47	11/24/23	11:08	-0.02	0.0	0.1	20.1	79.8	3	
D-64	11/24/23	11:12	-2.65	0.0	0.1	19.9	80.0	4	
E-85	11/24/23	11:16	-0.01	0.0	0.1	19.7	80.2	4	

SCS SIGNATURE:_____

LEA SIGNATURE:_____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: Marcos M | TEMPERATURE: 70 | BARO. PRESSURE: 82.4

GEM SERIAL #: G502765 | WEATHER CONDITIONS: Sunny

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	1/26	9:24	-.06	0.0	0.4	20.1	79.5	2	
B-25	1/26	9:29	.03	0.0	0.2	20.1	79.7	2	
C-40	1/26	9:31	-.07	0.0	0.3	20.0	79.7	3	
206	1/26								
A-10	1/26	10:12	-0.01	0.0	9.0	15.5	99.5	2	
B-25	1/26	10:15	1.11	0.0	13.7	9.3	99.6	2	
C-40	1/26	10:18	-0.02	0.0	19.4	5.2	75.4	3	
207									
A-10	1/27	8:02	-0.12	0.0	5.1	16.6	78.3	2	
B-25	1/27	8:05	18.57	0.0	3.6	17.9	78.4	2	
C-40	1/27	8:08	3.73	0.0	0.1	20.9	99.0	3	
208									
A-9.1	1/26	9:32	-0.05	0.0	6.6	15.2	78.8	2	
B-25	1/26	9:35	-0.12	0.0	12.7	6.0	80.4	2	
C-40	1/26	9:40	-1.02	0.0	6.3	14.4	81.3	3	
210									
A-10	1/26	10:55	-0.26	0.1	2.8	18.3	78.8	2	
B-25	1/26	11:00	-0.03	0.1	0.1	19.4	80.4	2	
C-39	1/26	11:05	0.02	0.0	0.8	17.9	81.3	3	
242									
C-42	1/26	8:52	-0.13	0.0	1.5	18.8	79.8	3	
D-60	1/26	8:58	-0.14	0.0	8.1	6.8	85.1	4	
E-78	1/26	9:02	-0.09	0.0	3.2	16.3	80.5	4	
243									
A-11	1/26	8:25	0.01	0.0	0.1	20.9	79.0	2	
B-20	1/26	8:27	.05	0.0	2.5	13.2	84.4	2	
C-33	1/26	8:32	-.04	0.0	1.4	15.7	82.8	3	

SCS SIGNATURE: _____ LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	1/26	9:12	-039	0.0	11.0	4.1	84.9	2	
B-21	1/26	9:15	-0.14	0.0	0.3	20.2	79.5	2	
C-36	1/26	9:18	-0.44	0.0	14.3	9.7	76.0	3	
245									
A-11	1/26	8:42	.02	0.0	6.9	12.7	80.4	2	
B-20	1/26	8:44	-.06	0.3	4.9	20.0	75.0	2	
C-35	1/26	8:48	.20	0.5	19.3	4.9	75.4	3	
D-50	1/26	8:52	.06	0.0	3.1	17.9	79.1	4	
E-64	1/26	8:58	0.01	0.0	0.3	20.9	78.8	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	1/26	7:34	-.02	0.0	9.2	4.9	85.9	2	
B-20	1/26	7:36	.04	0.0	20.0	4.0	76.0	2	
C-33	1/26	7:41	-.22	1.1	43.1	0.7	55.2	3	
D-48	1/26	7:45	-.35	2.1	48.9	0.5	48.5	4	
E-62	1/26	7:51	-8.22	0.0	18.6	5.6	75.9	4	
239									
A-11	1/26	8:13	-019	0.0	18.5	10.5	71.0	2	
B-20	1/26	8:19	-0.20	0.0	0.1	20.9	79.0	2	
C-35	1/26	8:22	-0.10	0.0	0.1	20.9	79.0	3	
D-50	1/26	8:25	-0.36	0.0	0.2	20.7	79.1	4	
E-64	1/26	8:29	-0.05	0.0	0.1	20.9	79.0	4	
240									
A-11	1/26	7:35	-0.11	0.6	11.8	10.0	78.2	2	
B-20	1/26	7:38	-0.14	0.0	0.1	20.9	79.0	2	
C-33	1/26	7:46	-0.04	0.0	0.1	20.9	79.0	3	
D-49	1/26	7:58	-0.13	0.0	0.2	20.9	78.9	4	
E-61	1/26	8:03	-0.11	0.0	0.1	20.9	78.9	4	

SCS SINGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: Marios M | TEMPERATURE: 70 | BARO. PRESSURE: 82.4

GEM SERIAL #: 650765 | WEATHER CONDITIONS: Sunny

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	1/26	9:39	-.25	0.0	0.4	19.7	79.9	2	
B	1/26	9:41	-4.20	0.0	0.8	18.3	81.0	2	
C	1/26	9:44	-.17	0.0	0.0	20.9	79.1	3	
D								3	

SCS SIGNATURE: _____

LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	1/26	9:11	-.16	0.0	0.7	20.3	79.0		
PV204D	1/26	9:55	-11.15	0.0	2.2	18.4	79.5		
PV211D	1/26	9:20	-.24	0.0	0.6	20.0	79.3		

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: John Palos | TEMPERATURE: 54° | BARO. PRESSURE: 28.22

GEM SERIAL #: G505464 | WEATHER CONDITIONS: Clear

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	2/21/23	7:52	+0.00	0.0	0.3	20.8	79.0	2	
B-29	2/21/23	7:55	-0.03	0.0	0.2	20.6	79.2	2	
C-45	2/21/23	7:56	-0.12	0.0	0.1	20.9	79.0	3	
D-61	2/21/23	7:58	-0.52	0.0	0.1	20.9	79.0	4	
E-77	2/21/23	8:01	-15.82	0.0	0.2	20.9	79.0	4	
214									
A-13	2/21/23	8:31	+0.08	0.0	0.5	20.7	78.7	2	
B-30	2/21/23	8:34	-10.93	0.0	0.1	20.9	79.0	2	
C-48	2/21/23	8:37	-14.01	0.0	0.1	20.9	79.0	3	
215									
A-13	2/21/23	8:10	+0.03	0.0	0.1	20.9	79.0	2	
B-30	2/21/23	8:13	+0.03	0.0	7.4	3.5	89.1	2	
C-47	2/21/23	8:15	+0.02	0.0	0.1	20.9	79.0	3	
D-64	2/21/23	8:18	+0.01	0.0	0.5	19.9	79.6	4	
E-81	2/21/23	8:22	-0.07	0.0	5.1	8.6	86.3	4	
216									
A-14	2/21/23	8:53	+0.01	0.0	1.5	16.0	82.5	2	
B-43	2/21/23	8:55	+0.00	0.0	3.7	14.8	81.5	2	
C-62	2/21/23	8:57	+0.00	0.0	7.2	8.0	84.9	3	
D-86	2/21/23	8:59	+0.01	0.0	3.2	11.7	85.1	4	
E-110	2/21/23	9:02	+0.02	0.0	1.5	17.5	81.0	4	
217									
A-13	2/21/23	9:19	+0.43	0.0	3.0	16.9	80.2	2	
B-30	2/21/23	9:21	+0.01	0.0	4.8	11.5	83.6	2	
218R									
A-11	2/21/23	10:35	-0.72	0.1	15.6	0.1	84.3	2	
B-26.5	2/21/23	10:38	-0.00	0.0	12.0	2.0	85.9	2	
B-30	2/21/23	10:40	+0.02	0.0	34.0	5.8	40.2	2	
219									
A-13	2/21/23	10:05	+0.02	0.0	1.0	19.2	79.8	2	
B-64	2/21/23	10:07	-0.01	0.0	0.1	20.5	79.4	2	
C-115	2/21/23	10:09	-0.05	0.0	1.9	17.0	81.1	3	
D-166	2/21/23	10:11	+0.00	0.0	0.9	19.2	80.0	4	
E-217	2/21/23	10:15	+0.35	0.0	5.7	10.2	84.1	4	

SCS SIGNATURE: _____

LEA SIGNATURE _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	2/21/23	8:50	-.28	ø	1.6	18.6	79.7	2	
B-40	2/21/23	9:03	-.29	ø	1.7	17.3	80.0	2	
C-87	2/21/23	9:06	-.33	ø	6.2	13.3	80.4	3	
D-124	2/21/23	9:10	-.27	ø	0.2	20.8	79.0	4	
E-158	2/21/23	9:14	-.31	ø	7.2	10.1	82.7	4	
220B									
A-14	2/21/23	9:25	-.32	ø	2.7	16.1	81.2	2	
B-38	2/21/23	9:28	-.35	ø	10.0	0.4	89.5	2	
C-62	2/21/23	9:32	-.17	ø	10.6	0.3	89.2	3	
D-86	2/21/23	9:36	-.26	ø	10.4	0.8	88.9	4	
E-110	2/21/23	9:41	-.28	ø	8.8	5.3	86.7	4	
221									
A-13	2/21/23	9:51	-.16	ø	4.2	10.8	85.0	2	
B-56	2/21/23	9:54	-.22	ø	5.1	7.4	87.4	2	
C-99	2/21/23	9:58	+.01	ø	10.6	0.0	89.4	3	
D-142	2/21/23	10:02	-.04	ø	6.5	5.8	87.8	4	
E-185	2/21/23	10:06	-.14	ø	4.9	8.3	86.8	4	
222									
A-13	2/21/23	10:16	-.16	ø	10.2	6.0	83.8	2	
B-54.8	2/21/23	10:19	-.16	ø	10.3	3.0	86.7	2	
C-96.5	2/21/23	10:22	-.18	ø	2.5	16.8	80.7	3	
D-138.3	2/21/23	10:26	-.09	0.6	8.9	1.9	81.6	4	
E-180	2/21/23	10:31	+1.98	ø	7.6	0.0	92.3	4	
223									
A-13	2/21/23	10:51	-.14	ø	5.0	13.6	81.4	2	
B-37.5	2/21/23	10:54	-.58	ø	8.7	9.4	81.8	2	
C-62	2/21/23	10:57	-.11	ø	7.8	6.3	86.0	3	
D-86.5	2/21/23	11:02	-.14	ø	2.4	17.1	80.5	4	
E-111	2/21/23	11:07	-.41	ø	2.5	16.9	80.6	4	
224									
A-13	2/21/23	11:20	-.15	ø	1.8	14.5	83.7	2	
B-67.5	2/21/23	11:23	+.49	ø	4.8	8.4	86.9	2	
C-122	2/21/23	11:26	-.14	0.6	7.8	4.3	87.3	3	
D-177.5	2/21/23	11:31	-.17	ø	0.3	20.5	79.3	4	
E-232	2/21/23	11:38	-5.97	ø	0.1	20.9	79.0	4	

SCS SINGNATURE: AMANDO MARTINEZ

LEA SIGNATURE: _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	2-21	9:36	.14	0.0	1.3	13.2	85.4	2	
B-72	2-21	9:38	.16	0.0	1.5	19.3	79.2	2	
C-1131	2-21	9:43	.11	0.0	1.5	19.9	78.6	3	
D-190	2-21	9:47	.11	0.0	1.2	20.1	78.7	4	
E-244	2-21	9:51	.15	0.0	0.9	20.2	79.0	4	
226	2								
A-13	2-21	8:09	.21	0.0	0.1	20.1	79.8	2	
B-64	2-21	8:12	-7.21	0.0	0.1	20.1	79.7	2	
C-114	2-21	8:16	-7.34	0.0	0.1	20.2	79.6	3	
D-164	2-21	8:20	-7.63	0.0	0.1	20.3	79.6	4	
E-208	2-21	8:25	-8.20	0.0	0.2	20.3	79.5	4	
227									
A-13	2-21	8:36	.14	0.0	1.5	14.0	84.5	2	
B-48.7	2-21	8:39	2.23	0.0	5.8	0.8	93.4	2	
C-84.4	2-21	8:45	1.92	0.0	5.2	1.3	93.5	3	
D-114	2-21	8:49	2.08	0.0	4.1	0.1	95.7	4	
E-115.7	2-21	8:54	1.81	0.0	4.9	0.1	95.0	4	
228									
A-13	2-21	9:05	.20	0.0	2.3	14.6	83.1	2	
B-63	2-21	9:09	2.23	0.0	1.6	18.4	80.0	2	
C-113	2-21	9:12	.89	0.4	6.9	0.0	92.7	3	
D-163	2-21	9:19	.51	0.0	2.9	7.0	90.1	4	
E-213	2-21	9:23	1.78	0.0	4.9	0.1	95.0	4	
229									
A-13	2-21	7:35	-.13	0.0	1.0	18.0	81.0	2	
B-48.7	2-21	7:38	-5.35	0.0	0.2	20.0	79.8	2	
C-84.4	2-21	7:41	-6.56	0.0	0.2	20.0	79.9	3	
D-114	2-21	7:46	-14.55	0.0	0.7	18.4	80.9	4	
E-155.7	2-21	7:51	-25.33	0.0	0.2	20.2	79.6	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241									
A-13	2/21/22	7:21	-2.37	0.0	0.2	20.9	78.9	2	
B-28	2/21/22	7:23	-9.58	0.0	0.2	20.9	78.9	2	
C-47	2/21/22	7:28	-0.00	0.0	0.2	20.9	78.9	3	
D-64	2/21/22	7:30	-0.06	0.0	0.2	20.9	78.9	4	
E-85	2/21/22	7:33	-8.51	0.0	0.1	20.9	79.0	4	

SCS SIGNATURE:_____

LEA SIGNATURE:_____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: MARCOS M			TEMPERATURE: 40°			BARO. PRESSURE: 27.93			
GEM SERIAL #: 506061				WEATHER CONDITIONS: CLOUDY					
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
MW 203									
A-10	2-23	9:27	-.07	00	0.1	16.0	83.9	2	
B-25	2-23	9:30	-.07	0.0	0.2	19.6	80.2	2	
C-40	2-23	9:33	-.09	0.0	0.3	20.0	79.7	3	
206									
A-10	2-23	9:04	-.04	0	9.7	11.0	79.3	2	
B-25	2-23	9:07	-.05	0	14.4	7.8	77.8	2	
C-40	2-23	9:10	0.0	0	6.3	6.3	76.2	3	
207									
A-10	2-21	10:10	.11	0.0	0.8	20.2	79.1	2	
B-25	2-21	10:13	.11	0.0	0.6	20.2	79.1	2	
C-40	2-21	10:18	.12	0.0	0.5	20.4	79.1	3	
208									
A-9.1	2-21	10:37	2.50	0.0	3.7	15.5	80.8	2	
B-25	2-21	10:39	-.02	0.0	3.6	7.8	89.5	2	
C-40	2-21	10:43	.11	0.0	1.0	19.3	79.7	3	
210									
A-10	2-21	10:53	.09	0.0	0.8	19.8	79.4	2	
B-25	2-21	10:56	.16	0.0	0.7	19.8	79.5	2	
C-39	2-21	11:04	.08	0.0	0.5	19.8	79.7	3	
242									
C-42	2-23	7:55	.04	0	1.9	17.0	81.1	3	
D-60	2-23	8:00	.02	0	6.8	9.6	83.6	4	
E-78	2-23	8:05	.06	0	3.9	13.3	82.8	4	
MW 243									
A-11	2-23	8:24	.01	0.0	0.3	13.9	85.8	2	
B-20	2-23	8:27	.02	0.0	0.3	11.5	88.2	2	
C-33	2-23	8:31	.01	0.0	0.5	15.8	83.7	3	

SCS SIGNATURE: _____ LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	2-23	8:16	-.14	0	13.0	5.8	81.2	2	
B-21	2-23	8:19	-.04	0.1	18.1	2.4	79.3	2	
C-36	2-23	8:23	-.36	0	7.3	15.5	77.1	3	
245									
A-11	2-23	8:37	-.03	0.0	0.2	12.1	87.6	2	
B-20	2-23	8:41	-.07	0.0	0.3	19.7	80.0	2	
C-35	2-23	8:46	-.09	0.2	12.0	10.0	77.8	3	
D-50	2-23	8:51	-.03	0.0	0.8	16.4	82.8	4	
E-64	2-23	8:56	-.05	0.0	0.3	19.4	80.3	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	2-23	7:37	.11	0.0	0.2	13.6	86.2	2	
B-20	2-23	7:40	.10	0.0	0.1	12.2	87.6	2	
C-33	2-23	7:44	-.20	1.0	37.1	1.1	60.8	3	
D-48	2-23	7:48	-.38	1.0	29.9	6.2	62.9	4	
E-62	2-23	7:53	.01	0.0	1.2	5.1	93.7	4	
239									
A-11	2-23	9:42	-.03	0	14.9	10.9	74.1	2	
B-20	2-23	9:44	.03	0	0.2	20.4	79.4	2	
C-35	2-23	9:47	.01	0	0.1	20.6	79.3	3	
D-50	2-23	9:52	-.01	0	0.4	20.3	79.3	4	
E-64	2-23	9:56	-.01	0	0.1	20.8	79.1	4	
240									
A-11	2-23	10:07	0.0	0	0.5	20.6	78.9	2	
B-20	2-23	10:10	-.02	0	1.0	20.3	78.7	2	
C-33	2-23	10:14	-.03	0	0.1	20.9	78.9	3	
D-49	2-23	10:18	0.0	0	0.3	20.8	78.9	4	
E-61	2-23	10:24	-.16	0	0.2	20.8	79.0	4	

SCS SINGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: MARCOS M | TEMPERATURE: 40° | BARO. PRESSURE: 27.93

GEM SERIAL #: 506081 | WEATHER CONDITIONS: CLOUDY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	2-23	9:43	-.02	0.0	0.1	12.0	87.9	2	
B	2-23	9:45	-.08	0.0	0.2	16.2	83.6	2	
C	2-23	9:52	-.09	0.0	0.4	19.4	80.3	3	
D								3	

SCS SIGNATURE: _____

LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	2-23	9:10	-.03	0.0	0.3	20.0	79.7		
PV204D	2-23	9:21	-6.30	0	1.9	19.0	79.1		
PV211D	2-23	9:23	-.06	0.0	0.2	19.0	80.8		

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D									
PV204D									
PV211D	2-21	12:41	-.15	0.0	0.2	20.8	79.0		

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: MARCOS M | TEMPERATURE: 50' | BARO. PRESSURE: 27.86

GEM SERIAL #: 506081 | WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	3/24	9:04	.01	0.0	0.1	20.9	79.0	2	
B-29	3/24	9:07	0.01	0.1	4.0	21.0	74.9	2	
C-45	3/24	9:11	.01	0.0	0.1	20.9	79.0	3	
D-61	3/24	9:16	-1.22	0.0	0.1	21.0	78.9	4	
E-77	3/24	9:20	-1.0	0.0	0.1	20.9	79.0	4	
214									
A-13	3/24	9:37	.10	0.0	0.7	20.2	79.2	2	
B-30	3/24	9:40	-13.86	0.0	0.1	20.5	79.4	2	
C-48	3/24	9:44	.13	0.0	3.4	10.8	85.8	3	
215									
A-13	3/24	9:56	.24	0.0	0.1	20.5	79.4	2	
B-30	3/24	9:59	-.56	0.0	3.6	13.3	83.1	2	
C-47	3/24	10:03	1.60	0.0	0.1	20.6	79.3	3	
D-64	3/24	10:08	-.66	0.0	0.4	20.1	79.5	4	
E-81	3/24	10:13	-.36	0.0	7.8	14.6	82.5	4	
216									
A-14	3/24	10:26	.06	0.0	0.1	20.4	79.5	2	
B-43	3/24	10:29	-.14	0.0	0.1	20.5	79.4	2	
C-62	3/24	10:33	-.02	0.0	0.1	20.7	79.2	3	
D-86	3/24	10:39	.08	0.0	0.1	20.9	79.0	4	
E-110	3/24	10:45	.01	0.6	0.1	21.0	79.6	4	
217									
A-13	3/24	10:53	.09	0.0	4.4	16.7	78.9	2	
B-30	3/24	10:56	-.06	0.0	0.1	20.3	79.5	2	
218R									
A-11	3/24	1:19	28.05	0.0	15.3	1.0	83.6	2	
B-26.5	3/24	1:22	.65	0.0	0.6	9.2	90.2	2	
B-30	3/24	1:25	1.15	0.0	44.3	8.7	47.0	2	
219									
A-13	3/24	1:34	.15	0.0	2.1	17.9	79.9	2	
B-64	3/24	1:37	.16	0.0	10.7	2.8	86.5	2	
C-115	3/24	1:40	.15	0.0	2.6	15.7	81.8	3	
D-166	3/24	1:45	-.23	0.0	1.2	18.4	80.4	4	
E-217	3/24	1:49	-.22	0.0	4.9	10.5	84.5	4	

SCS SIGNATURE: _____

LEA SIGNATURE _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	3/24/23	10:43	-0.10	0.0	1.5	14.8	83.7	2	
B-40	3/24/23	10:44	-0.35	0.0	0.1	19.4	80.5	2	
C-87	3/24/23	10:46	-0.18	0.0	0.1	19.8	80.1	3	
D-124	3/24/23	10:48	-0.18	0.0	0.1	20.2	79.8	4	
E-158	3/24/23	10:51	-0.17	0.0	0.1	20.3	79.5	4	
220B									
A-14	3/24/23	9:44	-0.16	0.0	0.1	20.3	79.6	2	
B-38	3/24/23	9:46	-0.23	0.0	0.1	20.6	79.3	2	
C-62	3/24/23	9:47	-0.37	0.0	2.4	15.9	81.7	3	
D-86	3/24/23	9:49	-0.70	0.0	6.3	6.1	87.6	4	
E-110	3/24/23	9:53	-0.27	0.0	5.5	8.5	86.1	4	
221									
A-13	3/24/23	8:50	-0.08	0.0	0.1	20.7	79.2	2	
B-56	3/24/23	8:51	-0.20	0.0	0.1	20.7	79.2	2	
C-99	3/24/23	8:53	-0.51	0.0	3.2	15.4	81.4	3	
D-142	3/24/23	8:55	-0.19	0.0	0.1	20.7	79.2	4	
E-185	3/24/23	8:59	-0.16	0.0	1.2	18.6	80.2	4	
222									
A-13	3/24/23	9:15	-0.10	0.0	1.8	18.7	79.5	2	
B-54.8	3/24/23	9:17	-0.11	0.0	0.1	20.6	79.3	2	
C-96.5	3/24/23	9:19	-0.11	0.0	0.9	19.5	79.6	3	
D-138.3	3/24/23	9:22	-0.55	0.0	4.1	16.6	79.3	4	
E-180	3/24/23	9:25	-1.37	0.0	6.4	12.9	80.7	4	
223									
A-13	3/24/23	8:19	-0.05	0.0	0.1	20.5	79.4	2	
B-37.5	3/24/23	8:21	-0.11	0.0	1.7	17.6	80.7	2	
C-62	3/24/23	8:22	-0.04	0.0	0.1	20.5	79.4	3	
D-86.5	3/24/23	8:25	-0.07	0.0	0.9	18.9	80.3	4	
E-111	3/24/23	8:29	-0.84	0.0	0.1	20.7	79.2	4	
224									
A-13	3/24/23	7:36	-0.12	0.0	0.2	19.8	80.0	2	
B-67.5	3/24/23	7:37	-0.72	0.0	0.1	20.2	79.7	2	
C-122	3/24/23	7:40	-0.56	0.0	0.1	20.7	79.2	3	
D-177.5	3/24/23	7:43	-13.36	0.0	0.1	20.9	79.0	4	
E-232	3/24/23	7:47	-10.47	0.0	0.1	20.9	79.0	4	

SCS SINGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	3/24/23	8:37	0.0	0.2	6.7	8.0	85.2	2	
B-72	3/24/23	8:40	-4.15	ø	1.5	18.4	80.1	2	
C-1131	3/24/23	8:43	-12.60	0.2	1.3	18.5	80.1	3	
D-190	3/24/23	8:49	-12.41	ø	0.1	20.6	79.3	4	
E-244	3/24/23	8:54	-11.58	ø	0.1	20.6	79.3	4	
226									
A-13	3/24/23	9:04	+.05	ø	0.1	20.6	79.3	2	
B-64	3/24/23	9:08	-9.44	ø	0.1	20.5	79.4	2	
C-114	3/24/23	9:12	-10.39	ø	0.1	20.3	79.6	3	
D-164	3/24/23	9:17	-8.87	ø	0.1	20.2	79.7	4	
E-208	3/24/23	9:21	-11.22	ø	0.2	19.9	79.9	4	
227									
A-13	3/24/23	9:30	+.08	ø	0.2	19.3	80.5	2	
B-48.7	3/24/23	9:33	-2.23	0.1	0.1	19.8	80.1	2	
C-84.4	3/24/23	9:37	-1.66	ø	0.1	19.7	80.2	3	
D-114	3/24/23	9:42	-1.58	ø	0.1	19.6	80.3	4	
E-115.7	3/24/23	9:48	-1.88	ø	0.1	19.5	80.4	4	
228									
A-13	3/24/23	10:00	-.60	ø	2.1	15.5	82.4	2	
B-63	3/24/23	10:03	-1.77	ø	7.2	3.7	89.1	2	
C-113	3/24/23	10:07	-1.25	ø	2.4	17.3	80.2	3	
D-163	3/24/23	10:11	-.71	ø	0.5	19.6	80.0	4	
E-213	3/24/23	10:15	-1.36	ø	4.1	15.5	80.3	4	
229									
A-13	3/24/23	7:52	-.11	ø	1.0	18.1	80.9	2	
B-48.7	3/24/23	7:59	-6.97	ø	0.1	21.0	78.8	2	
C-84.4	3/24/23	8:05	-10.56	ø	0.7	19.1	80.2	3	
D-114	3/24/23	8:11	-19.57	ø	0.3	20.4	79.3	4	
E-155.7	3/24/23	8:17	-26.66	ø	0.1	20.8	79.1	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: AMANDO MARTINEZ LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241									
A-13	3/24	8:25	-4.97	0.1	0.1	20.9	78.9	2	
B-28	3/24	8:27	-20.30	0.1	0.1	20.9	78.9	2	
C-47	3/24	8:31	.14	0.1	0.1	20.9	78.8	3	
D-64	3/24	8:35	.36	0.1	0.2	21.0	78.8	4	
E-85	3/24	8:41	-12.75	0.1	0.1	21.0	78.8	4	

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: MARCOS | TEMPERATURE: 47° | BARO. PRESSURE: 28.70

GEM SERIAL #: 506081 | WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	3-23	10:21	.04	0.0	0.1	19.7	80.1	2	
B-25	3.23	10:24	.05	0.0	0.2	20.0	79.8	2	
C-40	3.23	10:28	.02	0 0	0.2	20.3	79.5	3	
206									
A-10	3/23	10:42	-.01	0	10.9	3.6	85.5	2	
B-25	3/23	10:45	0.0	0	17.3	6.9	75.7	2	
C-40	3/23	10:48	-.01	0	15.9	5.7	78.4	3	
207									
A-10	3/28	11:27	-2.03	0	5.2	16.6	78.2	2	
B-25	3/28	11:30	-26.16	0	2.8	17.2	80.0	2	
C-40	3/28	11:34	+18.68	0	1.1	17.7	81.2	3	
208									
A-9.1	3/23	10:26	-.04	0	0.2	20.1	79.8	2	
B-25	3/23	10:29	0.0	0	14.9	6.8	78.3	2	
C-40	3/23	10:32	.05	0	2.5	18.6	78.9	3	
210									
A-10	3/23	9:11	-.32	0	2.4	18.7	78.9	2	
B-25	3/23	9:14	-1.57	0	0.7	19.5	79.7	2	
C-39	3/23	9:18	-.17	0	0.8	18.3	81.0	3	
242									
C-42	3/23	9:40	-.04	0	3.2	13.7	83.1	3	
D-60	3/23	9:44	-.16	0	11.4	0.0	88.6	4	
E-78	3/23	9:48	-.03	0	6.9	5.0	88.1	4	
243									
A-11	3-23	9:06	.10	0.1	0.2	20.7	79.0	2	
B-20	3-23	9:10	.08	0.1	0.2	13.3	86.4	2	
C-33	3-23	9:14	.09	0.0	0.1	15.4	84.5	3	

SCS SIGNATURE:

LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	3/23	10:03	-.34	0	11.1	0.4	88.5	2	
B-21	3/23	10:13	-.32	0	0.2	19.9	79.9	2	
C-36	3/23	10:10	+.07	0	9.6	12.7	77.7	3	
245									
A-11	3-23	9:26	-.82	0.0	8.2	2.0	89.8	2	
B-20	3-23	9:29	-.80	1.9	19.1	6.4	72.5	2	
C-35	3-23	9:33	-.66	0.5	17.4	4.4	77.8	3	
D-50	3-23	9:37	.16	0.0	9.1	6.7	84.2	4	
E-64	3-23	9:45	.01	0.0	0.1	20.9	79.0	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	3.23	8:15	5.87	0.2	8.4	3.4	88.1	2	
B-20	3.23	8:17	.11	0.2	16.4	7.5	75.9	2	
C-33	3.23	8:20	-.09	1.1	39.9	0.6	58.5	3	
D-48	3.23	8:25	-.59	3.0	46.8	0.0	50.1	4	
E-62	3.23	8:29	-5.86	0.2	7.2	13.7	79.0	4	
239									
A-11	3/23	8:33	-.07	0	13.2	11.0	75.8	2	
B-20	3/23	8:38	-.02	0	0.1	20.9	79.0	2	
C-35	3/23	8:44	-.90	0	0.1	21.0	78.9	3	
D-50	3/23	8:51	-.03	0.1	0.7	19.8	79.4	4	
E-64	3/23	8:55	-.22	0	0.2	20.8	79.0	4	
240									
A-11	3/23	7:57	-.02	0	11.7	7.6	80.0	2	
B-20	3/23	8:01	-.01	0	1.0	20.6	78.9	2	
C-33	3/23	8:23	-.03	0.2	0.1	20.9	78.7	3	
D-49	3/23	8:11	-.02	0.1	0.1	20.9	78.9	4	
E-61	3/23	8:19	-.03	0	0.2	20.9	78.9	4	

SCS SINGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: MARCOS M | TEMPERATURE: 50' | BARO. PRESSURE: 27.81

GEM SERIAL #: 506081 | WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	3-23	10:37	-.07	0.0	7.6	0.5	91.9	2	
B	3-23	10:40	-2.26	0.0	0.1	20.6	79.3	2	
C	3-23	10:45	-.90	0.0	2.2	0.8	96.9	3	
								3	

SCS SIGNATURE: _____

LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	3-23	10:08	.14	0.0	0.4	20.8	78.7		
PV204D	3-23	11:06	-36.04	0	3.4	16.6	79.9		
PV211D	3-23	10:15	.04	0.0	0.5	20.5	78.7		

SCS SIGNATURE: _____ LEA SIGNATURE: _____

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277
specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: April 6, 2023
Client: SCS Field Services
Project Location: Sunshine Canyon Landfill
Project No.: 07219002.00
Date Received: March 23, 2023
Date Analyzed: March 23 & 24, 2023

AtmAA Lab No.:	20823-11	20823-12	20823-13
	Probe P205RC	Probe P205RD	Probe P245B
Components	*(Concentration in ppmv)*		
Methane	9910	26350	25200
Carbon dioxide	408450	504750	252600
Ethane	<5	<5	<5
TGNMO	21.3	20.3	5.96
Hydrogen sulfide	<0.08	<0.08	0.32
	(Concentration in ppbv)		
Benzene	2.50	3.07	0.61
Benzyl chloride	<0.60	<0.60	<0.60
Chlorobenzene	<0.60	<0.60	<0.60
Dichlorobenzenes*	<1.20	<1.20	1.26
1,1-dichloroethane	<0.60	<0.60	<0.60
1,2-dichloroethane	<0.60	<0.60	<0.60
1,1-dichloroethylene	<0.60	<0.60	<0.60
Dichloromethane	<1.40	<1.40	<1.40
1,2-dibromoethane	<0.40	<0.40	<0.40
Perchloroethylene	<0.40	<0.40	<0.40
Carbon tetrachloride	<0.80	<0.80	<0.80
Toluene	0.74	0.74	1.23
1,1,1-trichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50
Chloroform	<0.50	<0.50	<0.50
Vinyl chloride	<0.50	<0.50	<0.50
m+p-xylenes	1.42	1.44	2.37
o-xylene	<0.60	0.60	1.08

Methane was analyzed by thermal conductivity detection/gas chromatography (TCD/GC), ASTM D1946.
Ethane and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25. Concentrations are reported as ppmvC.
Toxic air contaminants (TAC) compounds were analyzed by GC/MS, EPA TO-15.
Hydrogen sulfide was analyzed by SCD/GC, SCAQMD 307.91.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon Landfill
Date Received: March 23, 2023
Date Analyzed: March 23 & 24, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Methane	Probe P205RC	9990	9830	9910	1.6
	Probe P205RD	25300	27400	26350	8.0
	Probe P245B	25500	24900	25200	2.4
Ethane	Probe P205RC	<5	<5	---	---
	Probe P245B	<5	<5	---	---
TGNMO	Probe P205RC	21.3	21.2	21.3	0.47
	Probe P245B	5.93	5.98	5.96	0.84
Hydrogen sulfide	Probe P205RC	<0.08	<0.08	---	---
	Probe P245B	0.31	0.32	0.32	3.2
		(Concentration in ppbv)			
Benzene	Probe P205RC	2.43	2.56	2.50	5.2
Benzyl chloride	Probe P205RC	<0.60	<0.60	---	---
Chlorobenzene	Probe P205RC	<0.60	<0.60	---	---
Dichlorobenzenes	Probe P205RC	<1.20	<1.20	---	---
1,1-dichloroethane	Probe P205RC	<0.60	<0.60	---	---
1,2-dichloroethane	Probe P205RC	<0.60	<0.60	---	---
1,1-dichloroethylene	Probe P205RC	<0.60	<0.60	---	---
Dichloromethane	Probe P205RC	<1.40	<1.40	---	---
1,2-dibromoethane	Probe P205RC	<0.40	<0.40	---	---
Perchloroethene	Probe P205RC	<0.40	<0.40	---	---
Carbon tetrachloride	Probe P205RC	<0.80	<0.80	---	---
Toluene	Probe P205RC	0.75	0.73	0.74	2.7
1,1,1-trichloroethane	Probe P205RC	<0.50	<0.50	---	---
Trichloroethene	Probe P205RC	<0.50	<0.50	---	---
Chloroform	Probe P205RC	<0.50	<0.50	---	---
Vinyl chloride	Probe P205RC	<0.50	<0.50	---	---
m+p-xylenes	Probe P205RC	1.51	1.32	1.42	13
o-xylene	Probe P205RC	<0.60	<0.60	---	---

Three Tedlar bag samples, laboratory numbers 20823-(11-13), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 9 repeat measurements from three Tedlar bag samples is 4.2%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES: 3

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other_____

PROJECT NUMBER: 07219002.00

PROJECT MANAGER: TONY RAMIREZ

PROJECT NAME: Sunshine Canyon Landfill

W.O. / S.O. #:

PROJECT LOCATION: Sylmar, CA

SAMPLER NAME AND SIGNATURE: MARCOS MARTINEZ

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	IAC	H2S	CH4	CO2	ETHANE	TGNMOC			LAB USE ONLY
	P205RC	GAS	3-23-23 8:35am	1OL	NONE	20823-11	X	X	X	X	X	X	X			20823-11
	P205RD	GAS	3-23-23 8:45am	1OL	NONE	-12	X	X	X	X	X	X	X			-12
	P245B	GAS	3-23-23 9:40am	1OL	NONE	-13	X	X	X	X	X	X	X			-13

Atm/Nat

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
	3/23/23	Stephanie Ferrer	3-23-23	Stephanie Ferrer	3-23		3-23-23
COMPANY: SCS	TIME: 1430	COMPANY: DCS	TIME: 1430	COMPANY: DCS	TIME: 4:30	COMPANY: ATMAC	TIME: 4:38

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AtmAA Lab No.:	20823-11	20823-12	20823-13
	Probe P205RC	Probe P205RD	Probe P245B
Components	*(Concentration in ppmv)*		
Methane	9910	26350	25200
Carbon dioxide	408450	504750	252600
Ethane	<5	<5	<5
TGNMO	21.3	20.3	5.96
Hydrogen sulfide	<0.08	<0.08	0.32
	(Concentration in ppbv)		
Benzene	2.50	3.07	0.61
Benzyl chloride	<0.60	<0.60	<0.60
Chlorobenzene	<0.60	<0.60	<0.60
Dichlorobenzenes*	<1.20	<1.20	1.26
1,1-dichloroethane	<0.60	<0.60	<0.60
1,2-dichloroethane	<0.60	<0.60	<0.60
1,1-dichloroethylene	<0.60	<0.60	<0.60
Dichloromethane	<1.40	<1.40	<1.40
1,2-dibromoethane	<0.40	<0.40	<0.40
Perchloroethylene	<0.40	<0.40	<0.40
Carbon tetrachloride	<0.80	<0.80	<0.80
Toluene	0.74	0.74	1.23
1,1,1-trichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50
Chloroform	<0.50	<0.50	<0.50
Vinyl chloride	<0.50	<0.50	<0.50
m+p-xylenes	1.42	1.44	2.37
o-xylene	<0.60	0.60	1.08

Methane was analyzed by thermal conductivity detection/gas chromatography (TCD/GC), ASTM D1946.
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** total amount containing meta, para, and ortho isomers*

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(Repeat Analyses)

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		(Concentration in ppmv)			
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Ethane	Probe P205RC	<5	<5	---	---
	Probe P245B	<5	<5	---	---
TGNMO	Probe P205RC	21.3	21.2	21.3	0.47
	Probe P245B	5.93	5.98	5.96	0.84
Hydrogen sulfide	Probe P205RC	<0.08	<0.08	---	---
	Probe P245B	0.31	0.32	0.32	3.2
		(Concentration in ppbv)			
Benzene	Probe P205RC	2.43	2.56	2.50	5.2
Benzyl chloride	Probe P205RC	<0.60	<0.60	---	---
Chlorobenzene	Probe P205RC	<0.60	<0.60	---	---
Dichlorobenzenes	Probe P205RC	<1.20	<1.20	---	---
1,1-dichloroethane	Probe P205RC	<0.60	<0.60	---	---
1,2-dichloroethane	Probe P205RC	<0.60	<0.60	---	---
1,1-dichloroethylene	Probe P205RC	<0.60	<0.60	---	---
Dichloromethane	Probe P205RC	<1.40	<1.40	---	---
1,2-dibromoethane	Probe P205RC	<0.40	<0.40	---	---
Perchloroethene	Probe P205RC	<0.40	<0.40	---	---
Carbon tetrachloride	Probe P205RC	<0.80	<0.80	---	---
Toluene	Probe P205RC	0.75	0.73	0.74	2.7
1,1,1-trichloroethane	Probe P205RC	<0.50	<0.50	---	---
Trichloroethene	Probe P205RC	<0.50	<0.50	---	---
Chloroform	Probe P205RC	<0.50	<0.50	---	---
Vinyl chloride	Probe P205RC	<0.50	<0.50	---	---
m+p-xylenes	Probe P205RC	1.51	1.32	1.42	13
o-xylene	Probe P205RC	<0.60	<0.60	---	---

Three Tedlar bag samples, laboratory numbers 20823-(11-13), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 9 repeat measurements from three Tedlar bag samples is 4.2%.

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TOTAL NUMBER OF SAMPLES: 3

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other_____

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PROJECT MANAGER: TONY RAMIREZ

PROJECT NAME: Sunshine Canyon Landfill

W.O. / S.O. #:

PROJECT LOCATION: Sylmar, CA

SAMPLER NAME AND SIGNATURE: MARCOS MARTINEZ

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	IAC	H2S	CH4	CO2	ETHANE	TGNMOC			LAB USE ONLY
	P205RC	GAS	3-23-23 8:35am	1OL	NONE	20823-11	X	X	X	X	X	X	X			20823-11
	P205RD	GAS	3-23-23 8:45am	1OL	NONE	-12	X	X	X	X	X	X	X			-12
	P245B	GAS	3-23-23 9:40am	1OL	NONE	-13	X	X	X	X	X	X	X			-13

Atm/Nat

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
	3/23/23	Stephanie Ferrer	3-23-23	Stephanie Ferrer	3-23		3-23-23
COMPANY: SCS	TIME: 1430	COMPANY: DCS	TIME: 1430	COMPANY: DCS	TIME: 4:30	COMPANY: ATMAC	TIME: 4:38

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	4/18/23	7:37	-0.38	0.0	0.2	20.4	79.4	2	
B-40	4/18/23	7:39	-0.60	0.0	0.2	20.5	79.3	2	
C-87	4/18/23	7:41	-0.39	0.0	0.8	19.3	79.8	3	
D-124	4/18/23	7:44	-0.41	0.0	0.1	20.8	79.1	4	
E-158	4/18/23	7:48	-0.27	0.0	0.2	20.9	78.9	4	
220B									
A-14	4/18/23	8:14	-0.24	0.0	2.3	15.8	81.9	2	
B-38	4/18/23	8:16	-0.68	0.0	4.3	18.8	77.0	2	
C-62	4/18/23	8:20	-0.25	0.0	6.8	8.0	85.0	3	
D-86	4/18/23	8:24	-0.59	0.0	6.2	11.9	81.9	4	
E-110	4/18/23	8:30	-0.24	0.0	7.4	10.3	82.4	4	
221									
A-13	4/18/23	9:06	-0.22	0.0	4.1	17.0	78.9	2	
B-56	4/18/23	9:09	-0.09	0.0	0.2	20.5	79.3	2	
C-99	4/18/23	9:10	-0.26	0.0	6.5	11.6	81.8	3	
D-142	4/18/23	9:13	-0.14	0.0	0.1	20.6	79.3	4	
E-185	4/18/23	9:18	-0.13	0.0	4.3	12.9	82.8	4	
222									
A-13	4/18/23	9:35	-0.09	0.0	7.4	11.9	80.7	2	
B-54.8	4/18/23	9:37	-0.07	0.0	0.3	20.3	79.4	2	
C-96.5	4/18/23	9:39	-0.06	0.0	3.3	16.9	79.8	3	
D-138.3	4/18/23	9:43	-0.73	0.7	7.9	8.4	83.1	4	
E-180	4/18/23	9:48	-0.75	0.6	8.3	0.0	91.1	4	
223									
A-13	4/18/23	10:24	-0.08	0.0	2.2	17.4	80.5	2	
B-37.5	4/18/23	10:22	-0.03	0.0	3.9	14.7	81.4	2	
C-62	4/18/23	10:24	-0.01	0.0	0.9	19.6	79.5	3	
D-86.5	4/18/23	10:39	-0.04	0.0	2.3	17.2	80.5	4	
E-111	4/18/23	10:43	-0.20	0.0	0.9	19.4	79.7	4	
224									
A-13	4/18/23	11:02	-0.04	0.0	0.4	20.6	79.0	2	
B-67.5	4/18/23	11:04	-0.13	0.0	0.1	20.9	79.0	2	
C-122	4/18/23	11:07	-0.17	0.0	0.1	20.9	79.0	3	
D-177.5	4/18/23	11:09	-11.11	0.0	0.1	20.9	79.0	4	
E-232	4/18/23	11:14	-7.64	0.0	0.1	20.9	79.0	4	

SCS SINGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	4/18/23	13:53	+.08	0.5	1.8	20.6	77.1	2	
B-72	4/18/23	13:39	-4.47	0.2	1.6	20.1	78.2	2	
C-1131	4/18/23	13:34	-9.06	0.1	2.1	18.2	79.6	3	
D-190	4/18/23	13:46	-9.13	ø	0.0	20.7	79.2	4	
E-244	4/18/23	13:50	-9.19	ø	0.0	20.9	79.1	4	
226									
A-13	4/18/23	8:10	-.05	ø	0.1	20.8	79.1	2	
B-64	4/18/23	8:13	+.61	ø	0.1	20.9	79.0	2	
C-114	4/18/23	8:18	-8.01	ø	0.1	21.0	79.0	3	
D-164	4/18/23	8:23	-8.46	ø	0.1	21.0	79.0	4	
E-208	4/18/23	8:29	-9.54	ø	0.1	21.0	79.0	4	
227									
A-13	4/18/23	8:42	-.10	ø	1.3	16.5	82.2	2	
B-48.7	4/18/23	9:03	+.10	0.8	7.0	0.0	92.2	2	
C-84.4	4/18/23	8:50	+1.04	0.4	6.4	1.8	91.4	3	
D-114	4/18/23	8:55	+1.05	0.1	4.9	0.0	95.1	4	
E-115.7	4/18/23	8:59	+.88	ø	5.6	0.0	94.4	4	
228									
A-13	4/18/23	9:13	-.06	ø	1.2	18.2	80.6	2	
B-63	4/18/23	9:16	+.51	ø	6.9	3.9	89.3	2	
C-113	4/18/23	9:21	-.04	0.8	7.6	0.2	91.4	3	
D-163	4/18/23	9:26	-.04	0.1	2.2	12.7	85.0	4	
E-213	4/18/23	9:32	+.17	ø	4.7	1.3	94.0	4	
229									
A-13	4/18/23	7:39	-.47	ø	2.7	20.5	78.8	2	
B-48.7	4/18/23	7:44	-.07	ø	0.1	20.9	79.0	2	
C-84.4	4/18/23	7:49	-8.57	ø	0.7	19.4	79.9	3	
D-114	4/18/23	7:55	-16.84	ø	0.6	20.0	79.4	4	
E-155.7	4/18/23	8:01	-.05	ø	0.1	20.9	79.0	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: AMANDO MARTINEZ

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: RyanM | TEMPERATURE: 55 | BARO. PRESSURE: 28.23

GEM SERIAL #: 505463 | WEATHER CONDITIONS: Sunny

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	4-18	9:52	-.06	0.0	0.1	20.5	79.4	2	
B-29	4-18	9:55	.07	0.0	0.1	20.4	79.5	2	
C-45	4-18	9:58	-.30	0.0	0.1	20.5	79.4	3	
D-61	4-18	10:03	-.06	0.0	0.1	20.4	79.5	4	
E-77	4-18	10:08	-17.76	0.0	0.1	20.2	79.7	4	
214									
A-13	4-18	10:16	-.02	0.0	0.5	19.7	79.8	2	
B-30	4-18	10:21	-1.2	0.0	0.0	19.8	80.1	2	
C-48	4-18	10:26	.01	0.0	0.1	19.8	80.1	3	
215									
A-13	4-18	10:35	.05	0.0	0.0	20.1	79.9	2	
B-30	4-18	10:38	.01	0.0	6.0	7.5	86.5	2	
C-47	4-18	10:42	.22	0.0	0.0	20.4	79.6	3	
D-64	4-18	10:47	-.05	0.0	0.1	20.5	79.3	4	
E-81	4-18	10:53	-.10	0.0	3.9	12.8	83.4	4	
216									
A-14	4-18	11:04	.01	0.0	0.0	20.7	79.3	2	
B-43	4-18	11:06	-.02	0.0	0.0	20.7	79.3	2	
C-62	4-18	11:12	.03	0.0	0.0	20.6	79.4	3	
D-86	4-18	11:16	-.01	0.0	0.1	20.6	79.3	4	
E-110	4-18	11:21	.02	0	0.2	20.4	79.4	4	
217									
A-13	4-18	11:28	.04	0.0	2.2	18.7	79.0	2	
B-30	4-18	11:31	.01	0.0	6.5	5.0	88.4	2	
218R									
A-11	4-18	11:39	-.01	0.0	7.4	9.4	83.2	2	
B-26.5	4-18	11:42	.04	0.0	0.9	17.5	81.6	2	
B-30	4-18	11:44	.5	0.0	7.4	17.0	75.5	2	
219									
A-13	4-18	1:33	.04	0.0	1.5	19.2	79.2	2	
B-64	4-18	1:35	.01	0.0	5.2	11.2	83.6	2	
C-115	4-18	1:39	.04	0.0	1.9	18.7	79.5	3	
D-166	4-18	1:44	.04	0.0	6.2	8.8	85.1	4	
E-217	4-18	1:49	.05	0.0	7.0	7.0	86.0	4	

SCS SIGNATURE: _____

LEA SIGNATURE _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241	4/18								
A-13	4/18	2:21	.07	0.0	0.0	20.9	79.1	2	
B-28	4/18	2:24	-5.84	0.0	0.0	20.9	79.1	2	
C-47	4/18	2:24	0.06	0.0	0.0	20.9	79.1	3	
D-64	4/18	2:32	.09	0.0	0.1	20.9	79.1	4	
E-85	4/18	2:38	-4.13	0.0	0.0	20.9	79.1	4	

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: AMANDO MARTINEZ | TEMPERATURE: 75F | BARO. PRESSURE: 30.10"

GEM SERIAL #: G50334G | WEATHER CONDITIONS: MOSTLY SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	4/20/23	10:49	0.0	0	3.4	17.0	79.6	2	
B-25	4/20/23	10:53	+.01	0	4.0	14.8	81.2	2	
C-40	4/20/23	10:57	0.1	0	1.9	17.1	81.1	3	
206									
A-10	4/20/23	9:08	-.10	0	11.1	9.0	79.9	2	
B-25	4/20/23	9:11	-.15	0	19.3	3.8	76.9	2	
C-40	4/20/23	9:15	-.12	0	21.4	3.6	75.0	3	
207									
A-10	4/26/23	14:06	-.64	0	0.6	18.8	80.6	2	
B-25	4/26/23	11:10	-.70	0	1.1	18.3	80.6	2	
C-40	4/26/23	14:02	+.96	0	0.1	20.0	79.9	3	
208									
A-9.1	4/20/23	10:50	-.11	0	11.0	14.1	74.9	2	
B-25	4/20/23	10:53	-.02	0	17.1	6.9	75.9	2	
C-40	4/20/23	10:57	+.03	0	1.7	18.8	79.3	3	
210									
A-10	4/20/23	11:56	+.06	0	2.0	18.0	80.0	2	
B-25	4/20/23	11:59	-.17	0	0.8	18.5	80.7	2	
C-39	4/20/23	12:03	-.17	0	0.4	18.8	80.8	3	
242									
C-42	4/20/23	11:36	-.07	0	1.1	18.3	80.5	3	
D-60	4/20/23	11:42	-.14	0	9.6	1.5	88.9	4	
E-78	4/20/23	11:47	+.01	0	1.1	18.5	80.4	4	
243									
A-11	4/20/23	8:53	-.21	0.6	11.3	2.6	85.5	2	
B-20	4/20/23	8:57	-.11	0	7.6	11.4	81.1	2	
C-33	4/20/23	9:01	+.15	0.3	2.6	19.0	78.1	3	

SCS SIGNATURE: AMANDO MARTINEZ

LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	4/20/23	11:09	-.20	0	11.5	6.4	82.1	2	
B-21	4/20/23	11:13	+1.4	0	7.4	15.6	77.1	2	
C-36	4/20/23	11:28	-.22	0	5.3	15.7	74.0	3	
245									
A-11	4/20/23	9:17	-.09	0	9.3	11.3	79.4	2	
B-20	4/20/23	9:20	-.05	0.3	2.4	19.6	77.8	2	
C-35	4/20/23	9:37	-.01	0.4	20.8	1.6	77.1	3	
D-50	4/20/23	9:43	-.17	0	9.8	6.4	83.8	4	
E-64	4/20/23	9:48	-.06	0	0.1	20.7	79.2	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	4/20/23	8:11	-.05	0	8.0	4.2	87.8	2	
B-20	4/20/23	8:13	-.74	0	0.2	20.5	79.3	2	
C-33	4/20/23	8:16	-.71	0.5	29.4	7.5	62.6	3	
D-48	4/20/23	8:20	-1.67	1.4	32.4	6.6	59.7	4	
E-62	4/20/23	8:24	-16.08	0	12.3	13.6	74.5	4	
239									
A-11	4/20/23	12:12	-.03	0	12.4	11.1	76.5	2	
B-20	4/20/23	12:14	+.02	0	0.1	19.6	80.3	2	
C-35	4/20/23	12:18	0.0	0	0.0	19.7	80.2	3	
D-50	4/20/23	12:25	-3.89	0	0.0	19.9	80.0	4	
E-64	4/20/23	12:30	-.11	0	0.0	20.0	79.9	4	
240									
A-11	4/20/23	12:42	+.02	0	6.4	11.0	82.5	2	
B-20	4/20/23	12:45	+.05	0	0.7	19.6	79.7	2	
C-33	4/20/23	12:50	-.36	0	0.1	20.1	73.8	3	
D-49	4/20/23	12:55	-.06	0	0.1	20.0	79.8	4	
E-61	4/20/23	12:59	+.19	0	0.1	20.1	79.9	4	

SCS SINGNATURE: AMANDO MARTINEZ LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: AMANDO MARTINEZ | TEMPERATURE: 75°F | BARO. PRESSURE: 30.10"

GEM SERIAL #: G503746 | WEATHER CONDITIONS: MOSTLY SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	4/20/23	11:13	+.04	0	7.6	1.0	91.4	2	
B	4/20/23	11:16	-1.97	0	0.0	20.1	79.8	2	
C	4/20/23	11:20	-.47	0	2.2	0.3	97.5	3	
								3	

SCS SIGNATURE: AMANDO MARTINEZ LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	4/20/23	10:19	-.07	0	0.5	20.7	78.8		
PV204D	4/26/23	11:00	-3.26	0	0.3	19.5	80.2		
PV211D	4/20/23	10:00	-.04	0	11.9	1.8	86.3		

SCS SIGNATURE: AMANDO MARTINEZ LEA SIGNATURE: _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	5/23	9:07	-0.06	0.0	2.3	18.4	79.3	2	
B-40	5/23	9:12	-0.11	0.0	0.0	20.9	79.1	2	
C-87	5/23	9:15	-0.08	0.0	0.9	19.3	79.8	3	
D-124	5/23	9:21	-0.16	0.0	0.0	21.0	78.9	4	
E-158	5/23	9:26	-0.13	0.0	0.1	21.0	78.9	4	
220B									
A-14	5/23	9:33	-0.09	0.0	4.7	13.7	81.5	2	
B-38	5/23	9:36	-0.08	0.0	6.6	8.4	85.0	2	
C-62	5/23	9:40	-0.06	0.0	6.8	8.3	84.9	3	
D-86	5/23	9:44	-0.08	0.0	8.1	6.0	85.9	4	
E-110	5/23	9:49	-0.47	0.0	5.7	11.9	82.9	4	
221									
A-13	5/23	10:11	-0.10	0.1	4.8	12.5	82.7	2	
B-56	5/23	10:14	-0.10	0.0	8.3	1.7	89.9	2	
C-99	5/23	10:18	-0.10	0.0	10.1	1.7	88.2	3	
D-142	5/23	10:23	-0.09	0.0	2.2	16.0	81.9	4	
E-185	5/23	10:28	-0.10	0.0	4.0	11.9	84.1	4	
222									
A-13	5/23	10:35	-0.10	0.0	0.7	13.7	79.5	2	
B-54.8	5/23	10:38	-0.07	0.0	0.2	20.8	79.0	2	
C-96.5	5/23	10:42	-0.05	0.0	2.2	18.6	79.1	3	
D-138.3	5/23	10:47	-0.07	0.1	4.2	14.7	80.9	4	
E-180	5/23	10:52	0.99	0.9	8.9	0.0	90.1	4	
223									
A-13	5/23	8:42	-0.22	0.0	6.1	11.3	82.6	2	
B-37.5	5/23	8:44	-0.09	0.0	8.7	8.3	83.0	2	
C-62	5/23	8:48	-0.09	0.0	10.4	4.4	85.6	3	
D-86.5	5/23	8:53	-0.18	0.0	3.4	16.6	80.0	4	
E-111	5/23	8:58	-0.08	0.0	2.7	17.6	79.7	4	
224									
A-13	5/23	8:54	-0.13	0.0	2.4	13.5	84.1	2	
B-67.5	5/23	8:57	-0.14	0.2	1.1	18	80.7	2	
C-122	5/23	9:01	-0.52	0.5	3.4	14.2	81.9	3	
D-177.5	5/23	9:07	-10.99	0	0.1	21.0	78.8	4	
E-232	5/23	9:12	-7.53	0	0.1	21.0	78.9	4	

SCS SINGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: MARCOS M | TEMPERATURE: 64° | BARO. PRESSURE: 27.80

GEM SERIAL #: 506081 | WEATHER CONDITIONS: CLOUDY

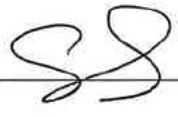
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	5/23	8:09	.09	0.0	0.2	20.5	79.4	2	
B-29	5/23	8:12	-.52	0.0	0.1	20.6	79.3	2	
C-45	5/23	8:15	.04	0.0	0.1	20.5	79.4	3	
D-61	5/23	8:21	.08	0.0	0.1	20.9	79.0	4	
E-77	5/23	8:26	.01	0.0	0.1	20.8	79.0	4	
214									
A-13	5/23	8:32	.04	0.0	0.1	19.9	80.0	2	
B-30	5/23	8:35	.01	0.0	0.2	20.4	79.4	2	
C-48	5/23	8:38	.03	0.0	1.8	15.8	81.1	3	
215									
A-13	5/23	8:46	.03	0.0	0.2	20.4	79.3	2	
B-30	5/23	8:49	.04	0.0	0.1	13.0	86.9	2	
C-47	5/23	8:53	.02	0.0	0.2	20.2	79.5	3	
D-64	5/23	8:58	-.01	0.0	0.1	19.2	80.6	4	
E-81	5/23	9:04	-.01	0.0	0.0	13.5	86.5	4	
216									
A-14	5/23	9:14	.06	0.0	0.1	20.8	79.1	2	
B-43	5/23	9:18	-.01	0.0	0.1	20.1	79.7	2	
C-62	5/23	9:22	.01	0.0	0.2	20.6	79.1	3	
D-86	5/23	9:28	-.01	0.0	0.2	20.9	78.9	4	
E-110	5/23	9:33	.02	0.0	0.1	20.5	79.4	4	
217									
A-13	5/23	9:44	-.02	0.0	0.0	16.6	83.4	2	
B-30	5/23	9:46	-.01	0.0	0.1	14.3	85.6	2	
218R									
A-11	5/23	1:03	-.07	0.0	16.9	0.8	82.4	2	
B-26.5	5/23	1:05	-.03	0.0	0.8	20.9	78.3	2	
B-30	5/23	1:07	-10.00	0.0	0.1	20.9	79.0	2	
219									
A-13	[illegible]	10:03	-.03	0.0	0.1	19.3	80.5	2	
B-64	5/23	10:06	-.07	0.0	0.1	20.5	79.4	2	
C-115	5/23	10:12	-.03	0.1	0.2	17.7	81.9	3	
D-166	5/23	10:17	-.05	0.0	0.1	18.9	81.3	4	
E-217	5/23	10:22	-.05	0.0	0.2	19.9	79.9	4	

SCS SIGNATURE: _____

LEA SIGNATURE _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	5/31/23	13:38	0.0	0.7	5.3	20.6	73.4	2	
B-72	5/23/23	9:24	-3.54	0	4.9	15.1	80.0	2	
C-1131	5/23/23	13:45	-4.40	0.2	2.5	18.2	79.1	3	
D-190	5/23/23	9:33	-6.87	0	0.1	21.0	79.0	4	
E-244	5/23/23	9:36	-7.58	0	0.1	20.9	79.0	4	
226	5.23.23								
A-13	5.23.23	9:48	-.08	0	0.1	20.8	79.1	2	
B-64	5.23.23	9:52	-8.19	0	0.1	20.9	79.0	2	
C-114	5.23.23	9:56	-8.75	0	0.1	20.9	79.0	3	
D-164	5.23.23	10:00	-9.08	0	0.1	21.0	78.9	4	
E-208	5.23.23	10:07	-10.30	0	0.4	20.6	79.1	4	
227									
A-13	5.23.23	10:14	-.10	0	1.9	15.5	82.6	2	
B-48.7	5.23.23	10:17	1.52	0.9	6.9	0.5	91.7	2	
C-84.4	5.23.23	10:20	.61	0.1	6.2	3.5	90.2	3	
D-114	5.23.23	10:26	.56	0	4.2	0.6	95.2	4	
E-115.7	5.23.23	10:31	.47	0	5.0	0.8	94.2	4	
228									
A-13	5.23.23	10:39	-0.8	0	3.9	15.2	80.9	2	
B-63	5.23.23	10:42	.68	0	2.9	17.1	79.9	2	
C-113	5.23.23	10:45	.25	0.7	7.2	0.4	91.8	3	
D-163	5.23.23	10:49	.13	0	4.3	5.0	90.7	4	
E-213	5.23.23	10:53	.48	0	4.7	0.9	94.3	4	
229									
A-13	5.23.23	11:11	-.52	0	0.7	19.5	79.8	2	
B-48.7	5.23.23	11:16	-5.95	0	0.1	20.9	79.0	2	
C-84.4	5.23.23	11:20	-8.41	0	0.8	19.1	80.1	3	
D-114	5.23.23	11:25	-16.60	0	0.7	19.2	80.0	4	
E-155.7	5.23.23	11:30	-21.67	0	0.1	20.9	79.0	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: 

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241									
A-13	5/23	11:01	-.05	0.0	0.2	20.9	78.9	2	
B-28	5/23	11:04	-.02	0.0	0.2	21.0	78.8	2	
C-47	5/23	11:08	-.04	0.0	0.2	20.3	79.6	3	
D-64	5/23	11:12	-.02	0.0	0.2	20.2	79.5	4	
E-85	5/23	11:16	-.05	0.0	0.2	21.0	78.8	4	

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: A Martinez | TEMPERATURE: 64°F | BARO. PRESSURE: 29.84"

GEM SERIAL #: G503346 | WEATHER CONDITIONS: Cloudy

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	5/25/23	10:04	-.04	0	4.3	16.5	79.2	2	
B-25	5/25/23	10:07	-.05	0	4.6	13.8	81.5	2	
C-40	5/25/23	10:11	-.04	0	2.6	16.2	81.3	3	
206									
A-10	5/25/23	11:38	-.07	0	12.1	9.6	78.3	2	
B-25	5/25/23	11:41	-.01	0	19.0	6.4	74.7	2	
C-40	5/25/23	11:45	-.21	0	25.0	4.4	70.5	3	
207									
A-10	5/25/23	10:59	-1.18	0	2.9	18.4	78.7	2	
B-25	5/25/23	11:02	-1.79	0	0.5	20.6	78.8	2	
C-40	5/25/23	11:05	+3.33	0.1	0.2	21.0	78.7	3	
208									
A-9.1	5/25/23	12:01	+.29	0	15.1	0.3	84.5	2	
B-25	5/25/23	12:04	-.04	0.4	22.0	0.2	77.4	2	
C-40	5/25/23	12:07	-7.75	0	0.3	20.7	78.9	3	
210									
A-10	5/25/23	8:43	-.01	0	1.4	19.9	75.8	2	
B-25	5/25/23	8:45	-.16	0	1.4	19.9	78.7	2	
C-39	5/25/23	8:49	-.17	0	1.4	19.9	78.7	3	
242									
C-42	5/25/23	9:03	+.01	0	2.3	17.0	80.6	3	
D-60	5/25/23	9:07	0.0	0	7.7	6.5	85.7	4	
E-78	5/25/23	9:11	-.04	0	4.5	12.0	83.5	4	
243									
A-11	5/25/23	8:01	-.09	0.9	11.1	4.3	83.6	2	
B-20	5/25/23	8:04	-.08	0	10.4	7.2	82.4	2	
C-33	5/25/23	8:08	-.01	0	9.8	7.2	82.9	3	

SCS SIGNATURE: Amando Martinez

LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	5/25/23	9:22	-.05	ø	15.3	0.1	84.7	2	
B-21	5/25/23	9:24	-.02	0.1	15.7	5.0	79.0	2	
C-36	5/25/23	9:27	-.24	ø	6.4	13.9	79.7	3	
245									
A-11	5/25/23	8:25	-.10	ø	16.6	0.7	82.7	2	
B-20	5/25/23	8:28	+.02	3.3	23.2	2.5	71.0	2	
C-35	5/25/23	8:33	-.06	0.4	19.1	4.2	76.3	3	
D-50	5/25/23	8:39	-.05	0.1	14.8	1.2	83.9	4	
E-64	5/25/23	8:48	-.12	ø	0.6	20.1	79.3	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	5/25/23	10:29	+.10	ø	8.1	12.4	79.6	2	
B-20	5/25/23	10:32	-.15	ø	8.4	13.1	78.5	2	
C-33	5/25/23	10:36	-.42	1.9	41.1	2.7	54.0	3	
D-48	5/25/23	10:41	-.20	2.8	45.0	1.0	51.2	4	
E-62	5/25/23	10:47	-1.07	ø	18.0	4.6	77.4	4	
239									
A-11	5/25/23	8:08	-.03	0.2	15.6	9.1	75.1	2	
B-20	5/25/23	8:14	-.08	0.1	0.1	20.9	79.0	2	
C-35	5/25/23	8:18	-.01	ø	0.1	20.9	79.8	3	
D-50	5/25/23	8:23	+.01	ø	0.1	20.9	79.6	4	
E-64	5/25/23	8:28	+.01	ø	0.1	21.0	79.0	4	
240									
A-11	5/25/23	7:44	+.08	0.2	18.1	1.5	80.2	2	
B-20	5/25/23	7:47	+.05	0.2	0.8	20.4	78.6	2	
C-33	5/25/23	7:51	+.04	0.3	0.1	21.0	78.6	3	
D-49	5/25/23	7:56	-1.06	0.1	0.3	20.9	78.7	4	
E-61	5/25/23	8:01	-.01	0.3	0.2	21.0	78.6	4	

SCS SINGNATURE: Amando Martinez

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: A MARTINEZ | TEMPERATURE: 64°F | BARO. PRESSURE: 29.84

GEM SERIAL #: G503346 | WEATHER CONDITIONS: CLOUDY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	5/25/23	9:38	-.14	0	9.6	0.1	90.4	2	
B	5/25/23	9:41	+.82	0	2.9	0.2	96.9	2	
C	5/25/23	9:46	+2.27	0	2.5	0.0	97.5	3	
D								3	

SCS SIGNATURE: A MARTINEZ
AMANDO MARTINEZ

LEA SIGNATURE_____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	5/25/23	9:19	-2.68	ø	1.5	19.7	78.8		
PV204D	5/30/23	11:09	-9.75	ø	1.4	19.5	79.1		
PV211D	5/25/23	9:05	-.17	ø	0.1	20.9	79.0		

SCS SIGNATURE: A MARTINEZ

LEA SIGNATURE: _____

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277
specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Samples

Report Date: June 17, 2023
Client: SCS Field Services
Project Location: Sunshine Canyon Landfill
Project No.: 07219002.00
Date Received: May 25, 2023
Date Analyzed: May 25-27, 2023

AtmAA Lab No.:	21453-28	21453-29	21453-30
	Probe P205RC	Probe P205RD	Probe P245B
Components	*(Concentration in ppmv)*		
Methane	19750	33000	35800
Carbon dioxide	460150	519400	258600
Ethane	<5	<5	<3
TGNMO	10.9	14.0	7.07
Hydrogen sulfide	<0.08	<0.08	0.45
	(Concentration in ppbv)		
Benzene	1.37	2.59	0.75
Benzyl chloride	<0.60	<0.60	<0.60
Chlorobenzene	<0.60	<0.60	<0.60
Dichlorobenzenes*	1.58	1.20	1.29
1,1-dichloroethane	<0.60	<0.60	<0.60
1,2-dichloroethane	<0.60	<0.60	<0.60
1,1-dichloroethylene	<0.60	<0.60	<0.60
Dichloromethane	<1.40	<1.40	<1.40
1,2-dibromoethane	<0.40	<0.40	<0.40
Perchloroethylene	<0.40	<0.40	<0.40
Carbon tetrachloride	<0.80	<0.80	<0.80
Toluene	1.80	1.24	1.34
1,1,1-trichloroethane	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50
Chloroform	<0.50	<0.50	<0.50
Vinyl chloride	<0.50	<0.50	<0.50
m+p-xylenes	4.07	2.79	2.51
o-xylene	1.89	1.31	1.12

Methane was analyzed by thermal conductivity detection/gas chromatography (TCD/GC), ASTM D1946.
Ethane and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/ total combustion analysis (FID/TCA) Method 25. Concentrations are reported as ppmvC.
Toxic air contaminants (TAC) compounds were analyzed by GC/MS, EPA TO-15.
Hydrogen sulfide was analyzed by SCD/GC, SCAQMD 307.91.
** total amount containing meta, para, and ortho isomers*

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Sunshine Canyon Landfill
Date Received: May 25, 2023
Date Analyzed: May 25-27, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Methane	Probe P205RC	19700	19800	19750	0.51
Ethane	Probe P205RC	<5	<5	---	---
	Probe P245B	<3	<3	---	---
TGNMO	Probe P205RC	10.8	10.9	10.9	0.92
	Probe P245B	7.15	6.98	7.07	2.4
Hydrogen sulfide	Probe P205RC	<0.08	<0.08	---	---
	Probe P245B	0.43	0.46	0.45	6.7
		(Concentration in ppbv)			
Benzene	Probe P205RC	1.47	1.27	1.37	15
Benzyl chloride	Probe P205RC	<0.60	<0.60	---	---
Chlorobenzene	Probe P205RC	<0.60	<0.60	---	---
Dichlorobenzenes	Probe P205RC	1.58	1.58	1.58	0.00
1,1-dichloroethane	Probe P205RC	<0.60	<0.60	---	---
1,2-dichloroethane	Probe P205RC	<0.60	<0.60	---	---
1,1-dichloroethylene	Probe P205RC	<0.60	<0.60	---	---
Dichloromethane	Probe P205RC	<1.40	<1.40	---	---
1,2-dibromoethane	Probe P205RC	<0.40	<0.40	---	---
Perchloroethene	Probe P205RC	<0.40	<0.40	---	---
Carbon tetrachloride	Probe P205RC	<0.80	<0.80	---	---
Toluene	Probe P205RC	1.83	1.76	1.80	3.9
1,1,1-trichloroethane	Probe P205RC	<0.50	<0.50	---	---
Trichloroethene	Probe P205RC	<0.50	<0.50	---	---
Chloroform	Probe P205RC	<0.50	<0.50	---	---
Vinyl chloride	Probe P205RC	<0.50	<0.50	---	---
m+p-xylenes	Probe P205RC	4.03	4.11	4.07	2.0
o-xylene	Probe P205RC	1.87	1.91	1.89	2.1

Three Tedlar bag samples, laboratory numbers 21453-(28-30), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 9 repeat measurements from three Tedlar bag samples is 3.7%.

CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES

9383 Charles Smith Avenue
Rancho Cucamonga, CA 91730
Office 909-373-2508 Fax 909-373-2518

TOTAL NUMBER OF SAMPLES: 3

PAGE 1 OF 1

TURNAROUND TIME REQUIRED: ☒ Std. ☐ 3-Day ☐ 24-Hr. ☐ Other

PROJECT NUMBER: 07219002.00

PROJECT MANAGER: TONY RAMIREZ

PROJECT NAME: SUNSHINE CANYON LANDFILL

W.O. / S.O. #:

PROJECT LOCATION: SYLMAR CA.

SAMPLER NAME AND SIGNATURE: AMANDO MARTINEZ / Amando Martinez

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TOC	TAC	H2S	CH4	CO2	ETHANE	TGNMOC			LAB USE ONLY
	P205R-C	GAS	@ 05/25/23 10:40AM	1OL	NONE		X	X	X	X	X	X	X			AtmAA # 21453-28
	P205R-D	GAS	@ 05/25/23 11:15AM	1OL	NONE		X	X	X	X	X	X	X			-29
	P245-B	GAS	@ 05/25/23 8:45AM	1OL	NONE		X	X	X	X	X	X	X			-30

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
John Parlos	5/25/23	DCS.	5/25/23		5-25-23		5-25-23
COMPANY: SCS ENGINEERS	TIME:	COMPANY:	TIME: 1:48 PM	COMPANY:	TIME: 2:16	COMPANY: ATMAA	TIME: 2:16

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: MARCOS M.			TEMPERATURE: 76			BARO. PRESSURE: 28.18			
GEM SERIAL #: 506081				WEATHER CONDITIONS: CLEAR					
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	6/20	8:20	-.03	0	0.2	20.9	78.9	2	
B-29	6/20	8:24	-.01	.1	0.2	20.2	79.6	2	
C-45	6/20	8:28	-.01	0	0.2	20.8	79.0	3	
D-61	6/20	8:32	-.08	0	0.2	20.7	79.0	4	
E-77	6/20	8:37	-.05	0	0.2	20.7	79.0	4	
214									
A-13	6/20	8:40	-.04	0.1	0.2	19.8	80.0	2	
B-30	6/20	8:43	-.04	0	0.2	20.6	79.1	2	
C-48	6/20	8:46	-.04	0.1	0.2	18.9	80.9	3	
215									
A-13	6/20	8:50	-.07	0	0.2	20.5	79.3	2	
B-30	6/20	8:54	-.06	0.1	0.1	15.5	84.3	2	
C-47	6/20	8:58	-.07	0	0.2	20.4	79.4	3	
D-64	6/20	9:05	-.01	0	0.1	20.7	79.1	4	
E-81	6/20	9:10	-.08	0.1	0.1	12.3	87.5	4	
216									
A-14	6/20	9:16	-.07	0.1	0.1	20.8	78.9	2	
B-43	6/20	9:19	-.01	0	0.1	18.8	81.1	2	
C-62	6/20	9:23	-.01	0	0.2	20.8	79.0	3	
D-86	6/20	9:29	-.01	0	0.2	208	79.0	4	
E-110	6/20	9:34	-.01	0	0.2	20.7	79.0	4	
217									
A-13	6/20	9:41	-.10	0.1	0.2	13.0	86.7	2	
B-30	6/20	9:49	-.01	0.1	0.2	18.1	81.6	2	
218R									
A-11	6/20	1:20	-.18	0	15.4	11.8	72.8	2	
B-26.5	6/20	1:22	-1.37	0	16.1	2.5	81.4	2	
B-30	6/20	1:24	-1.45	0	16.2	2.4	81.5	2	
219									
A-13	6/20	10:03	-.09	0	0.2	20.6	79.2	2	
B-64	6/20	10:06	-.11	0	0.2	20.3	79.5	2	
C-115	6/20	10:10	-.13	0	0	17.7	82.2	3	
D-166	6/20	10:15	-.08	0	0.2	18.3	81.5	4	
E-217	6/20	10:19	-.12	0	0	14.2	85.4	4	

SCS SIGNATURE:

LEA SIGNATURE _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	6/20/23	8:04	-.14	~~0~~	2.3	18.3	79.4	2	
B-40	6/20/23	8:13	-.19	~~0~~	0.5	20.5	79.0	2	
C-87	6/20/23	8:18	-.23	~~0~~	1.0	19.8	79.2	3	
D-124	6/20/23	8:29	-.18	~~0~~	0.1	20.9	78.8	4	
E-158	6/20/23	8:35	-.25	~~0~~	0.1	21.0	79.0	4	
220B									
A-14	6/20/23	8:54	-.19	~~0~~	3.8	16.8	79.7	2	
B-38	6/20/23	8:59	-.21	~~0~~	1.4	19.7	78.9	2	
C-62	6/20/23	9:03	-.34	~~0~~	5.2	12.6	82.2	3	
D-86	6/20/23	9:07	-.30	~~0~~	4.0	16.1	79.9	4	
E-110	6/20/23	9:12	-.18	~~0~~	4.4	14.9	80.7	4	
221									
A-13	6/20/23	9:25	-.16	~~0~~	3.1	17.0	79.9	2	
B-56	6/20/23	9:29	-.12	~~0~~	3.5	15.5	80.9	2	
C-99	6/20/23	9:33	-.30	~~0~~	2.7	17.0	80.3	3	
D-142	6/20/23	9:38	-.10	~~0~~	0.0	19.6	80.4	4	
E-185	6/20/23	9:42	-.05	~~0~~	0.7	18.6	80.6	4	
222									
A-13	6/20/23	9:52	-.06	~~0~~	3.1	16.2	80.7	2	
B-54.8	6/20/23	9:57	-.01	~~0~~	0.0	19.2	80.7	2	
C-96.5	6/20/23	10:00	0.0	~~0~~	1.8	17.6	80.7	3	
D-138.3	6/20/23	10:05	+.02	~~0~~	1.8	16.1	82.1	4	
E-180	6/20/23	10:09	+.05	0.7	7.9	0.2	91.1	4	
223									
A-13	6/20/23	10:26	-.06	~~0~~	6.4	10.8	82.8	2	
B-37.5	6/20/23	10:29	+.04	~~0~~	5.3	12.3	82.4	2	
C-62	6/20/23	10:32	+.03	~~0~~	3.4	14.9	81.7	3	
D-86.5	6/20/23	10:36	+.05	~~0~~	3.1	15.4	81.5	4	
E-111	6/20/23	10:40	+.30	~~0~~	2.5	16.2	81.3	4	
224									
A-13	6.20.23	8:00	-.12	0	0.5	20.2	79.2	2	
B-67.5	6.20.23	8:03	-1.36	0	0.4	19.7	79.8	2	
C-122	6.20.23	8:07	-0.94	0	0.1	20.1	79.8	3	
D-177.5	6.20.23	8:11	-11.84	0	0	20.0	80.0	4	
E-232	6.20.26	8:16	-8.82	0	0	19.9	80.1	4	

SCS SINGNATURE: Amando Martinez

LEA SIGNATURE: _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	6.20.23	15:33	0.05	0.9	3.4	20.5	75.2	2	
B-72	6.20.23	8:34	-2.04	0	8.7	13.6	80.7	2	
C-1131	6.20.23	15:39	-5.76	0.7	15.7	3.7	79.9	3	
D-190	6.20.23	8:42	-7.15	0	0.1	19.3	80.6	4	
E-244	6.20.23	8:47	-8.18	0	0	19.2	80.8	4	
226									
A-13	6.20.23	9:00	-0.03	0	0	19.2	80.8	2	
B-64	6.20.23	9:03	-9.29	0	0	19.3	80.7	2	
C-114	6.20.23	9:06	-9.80	0	0	19.5	80.5	3	
D-164	6.20.23	9:11	-9.55	0	0	19.8	80.1	4	
E-208	6.20.23	9:15	-6.73	0.1	0	19.8	80.1	4	
227									
A-13	6.20.23	9:25	-0.12	0.1	0	20.2	79.7	2	
B-48.7	6.20.23	15:09	+1.05	0.8	6.5	0	92.6	2	
C-84.4	6.20.23	9:32	-0.21	0.2	5.0	7.7	87.2	3	
D-114	6.20.23	9:36	1.07	0.1	0	20.3	79.6	4	
E-115.7	6.20.23	9:41	-0.09	0.1	4.1	8.9	86.9	4	
228									
A-13	6.20.23	9:50	-0.01	0.1	3.9	16.7	79.2	2	
B-63	6.20.23	9:53	-.19	0.1	0.1	20.0	99.7	2	
C-113	6.20.23	9:56	-0.27	0.1	0.1	19.7	80.1	3	
D-163	6.20.23	10:01	-.10	0.1	0.2	19.5	80.2	4	
E-213	6.20.23	10:05	-0.46	0	2.1	17.3	80.6	4	
229									
A-13	6.23.23	14:17	-0.73	0.1	1.0	19.5	79.4	2	
B-48.7								2	
C-84.4	6.23.23	14:23	-8.06	0	0.9	19.6	79.6	3	
D-114	6.23.23	14:28	-16.17	0	0.8	19.8	79.4	4	
E-155.7								4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241									
A-13	6/20	10:34	-.22	0	0.2	21.0	78.8	2	
B-28	6/20	10:36	-.10	0	0.1	20.0	79.9	2	
C-47	6/20	10:41	-.08	0	0.1	19.0	80.9	3	
D-64	6/20	10:46	-.08	0	0.1	20.4	80.9	4	
E-85	6/20	10:50	-.08	0	0.2	20.5	79.3	4	

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: AMANDO MARTINEZ | TEMPERATURE: 69°F | BARO. PRESSURE: 29.92"

GEM SERIAL #: G503346 | WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	6/22/23	9:59	-.19	0	3.3	17.1	79.6	2	
B-25	6/22/23	10:01	-.16	0	4.1	14.2	81.7	2	
C-40	6/22/23	10:05	-.18	0	2.1	16.2	81.7	3	
206									
A-10	6/22/23	11:33	-.17	0	10.1	12.2	77.7	2	
B-25	6/22/23	11:35	-.13	0	14.9	9.0	76.0	2	
C-40	6/22/23	11:39	-.09	0	13.0	5.6	71.4	3	
207									
A-10	6/22/23	11:02	-.56	0	1.6	19.3	79.1	2	
B-25	6/22/23	11:05	-.09	0	0.5	20.2	79.3	2	
C-40	6/22/23	11:08	-0.14	0	0.1	20.4	79.5	3	
208									
A-9.1	6/22/23	10:43	+.14	0	8.7	14.9	76.4	2	
B-25	6/22/23	10:45	-.05	0	10.6	13.4	76.0	2	
C-40	6/22/23	10:48	-.08	0	0.8	20.7	78.5	3	
210									
A-10	6/22/23	9:53	0.0	0	0.7	20.1	79.2	2	
B-25	6/22/23	9:55	-.23	0	0.8	19.9	79.3	2	
C-39	6/22/23	9:58	-.19	0	0.8	19.8	79.4	3	
242									
C-42	6/22/23	10:05	-.03	0	1.8	17.6	80.5	3	
D-60	6/22/23	10:09	+.01	0	7.1	7.0	85.9	4	
E-78	6/22/23	10:13	-.02	0	3.9	14.1	82.0	4	
243									
A-11	6/22/23	8:30	-.22	0.9	12.5	4.0	82.6	2	
B-20	6/22/23	8:34	-.09	0	8.0	9.8	82.2	2	
C-33	6/22/23	8:38	-.10	0	8.2	9.9	81.9	3	

SCS SIGNATURE: AMANDO MARTINEZ
Ryan Martinez

LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	6/22/23	10:24	-.03	0	14.5	0.8	84.6	2	
B-21	6/22/23	10:27	-.10	0.2	20.0	0.2	79.5	2	
C-36	6/22/23	10:31	-.14	0	14.0	7.3	78.7	3	
245									
A-11	6/22/23	8:50	-.15	0	15.0	3.1	81.9	2	
B-20	6/22/23	8:54	+.12	3.4	24.3	1.7	70.6	2	
C-35	6/22/23	8:58	-.44	0.3	18.7	4.0	76.9	3	
D-50	6/22/23	9:04	-.21	0.2	14.7	1.7	83.3	4	
E-64	6/22/23	9:09	-.20	0	0.8	20.3	78.9	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	6/22/23	10:52	-.09	0	5.5	14.3	80.2	2	
B-20	6/22/23	10:55	-.14	0	0.6	18.6	80.8	2	
C-33	6/22/23	10:59	-.32	2.0	39.8	3.4	54.8	3	
D-48	6/22/23	11:04	-.64	3.3	47.2	0.1	49.4	4	
E-62	6/22/23	11:10	-.03	0	13.7	6.2	80.1	4	
239									
A-11	6/22/23	9:27	+.12	0.1	19.4	6.5	74.0	2	
B-20	6/22/23	9:29	+.06	0.1	0.1	20.7	79.8	2	
C-35	6/22/23	9:35	-.02	0.1	0.1	20.9	78.9	3	
D-50	6/22/23	9:40	+.08	0.1	0.3	20.5	79.0	4	
E-64	6/22/23	9:45	+.02	0.1	0.2	20.9	78.9	4	
240									
A-11	6/22/23	9:02	+.02	0.1	7.1	12.7	80.1	2	
B-20	6/22/23	9:05	+.05	0	1.1	19.8	79.1	2	
C-33	6/22/23	9:10	+.09	0.6	0.3	20.3	78.9	3	
D-49	6/22/23	9:15	+.34	0.1	0.3	20.5	79.1	4	
E-61	6/22/23	9:19	+.08	0.3	0.2	20.5	79.0	4	

SCS SINGNATURE: Armando Martinez
Ryan Martinez

LEA SIGNATURE: _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	6/22/23	9:45	-2.14	~~0~~	1.6	19.2	79.2		
PV204D	6/22/23	11:10	-8.65	~~0~~	1.1	19.9	79.0		
PV211D	6/22/23	9:33	-.30	~~0~~	0.1	20.8	79.1		

SCS SIGNATURE: Amando Martinez
Ryan Martinez

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: AMANDO MARTINEZ TEMPERATURE: 69°F BARO. PRESSURE: 29.92"

GEM SERIAL #: G503346 WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	6/22/23	10:20	-.18	0	8.8	0.3	90.8	2	
B	6/22/23	10:23	-.44	0	0.5	18.9	80.6	2	
C	6/22/23	10:26	+.87	0	2.3	0.1	97.6	3	
D								3	

SCS SIGNATURE: AMANDO MARTINEZ LEA SIGNATURE _____

APPENDIX D

NPDES CERTIFICATION OF COMPLETION

2022-2023

ANNUAL REPORT

FOR STORM WATER DISCHARGES
ASSOCIATED WITH INDUSTRIAL ACTIVITIES

Reporting Period July 1, 2022 through June 30, 2023

Retain a copy of the completed Annual Report for your records.

Please remember that a Notice of Termination and new Notice of Intent are required whenever a facility operation is relocated or changes ownership.

If you have any questions, please contact your Regional Board Industrial Storm Water Permit Contact. The names, telephone numbers, and e-mail addresses of the Regional Board contacts, as well was the Regional Board office addresses, can be found at:
http://www.waterboards.ca.gov/water_issues/programs/stormwater/contact.shtml

General Information

A. Facility Information

WDID: 4 19I001306

Business Name: Sunshine Canyon Landfill

Physical Address: 14747 San Fernando Rd

City: Sylmar

State: CA

Zip: 91342

Contact Person: Michael Stewart

Phone: 818-362-2258

Email: mstewart2@republicservices.com

Standard Industrial Classification (SIC) Codes: 4953-Refuse Systems

B. Facility Owner Information

Business Name: BFI of California

Mailing Address: 14747 San Fernando Rd

City: Sylmar

State: CA

Zip: 91342

Contact Person: Michael Stewart

Phone: 816-521-3112

Email: mstewart2@republicservices.com

C. Facility Billing Information

Business Name: BFI of California

Mailing Address: 14747 San Fernando Rd

City: Sylmar

State: CA

Zip: 91342

Contact Person: Michael Stewart

Phone: 816-521-3112

Email: mstewart2@republicservices.com

Question Information

1. Has the Discharger conducted monthly visual observations (including authorized and unauthorized Non-Storm Water Discharges and Best Management Practices) in accordance with Section XI.A.1?

☒ Yes ☐ No

If No, see Attachment 1, Summary of Explanation.

2. Has the Discharger conducted sampling event visual observations at each discharge location where a sample was obtained in accordance with Section XI.A.2?

☒ Yes ☐ No

If No, see Attachment 1, Summary of Explanation.

3. Did you sample the required number of Qualifying Storm Events during the reporting year for all discharge locations, in accordance with Section XI.B?

☒ Yes ☐ No

If No, see Attachment 1, Summary of Explanation.

4. How many storm water discharge locations are at your facility?

1

5. Has the Discharger chosen to select Alternative Discharge Locations in accordance with Section XI.C.3?

☐ Yes ☒ No

6. Has the Discharger reduced the number of sampling locations within a drainage area in accordance with the Representative Sampling Reduction in Section XI.C.4?

☐ Yes ☒ No

6.1. Has the Discharger reduced the frequency of sampling at the facility area in accordance with the Sample Frequency Reduction in Section XI.C.7?

☐ Yes ☒ No

7. Permitted facilities located within an impaired watershed must assess for potential pollutants that may be present in the facility's industrial storm water discharge. Using the table below, populated based on the facility's location, indicate the presence of the potential pollutant at the facility.

See Attachment 2 for the List of Identified Pollutants within the Impaired Watershed.

8. Has the Discharger included the above pollutants in the SWPPP pollutant source assessment and assessed the need for analytical monitoring for the pollutants?

☒ Yes ☐ No

If No, what date will the parameter(s) will be added to the SWPPP and Monitoring Implementation Plan?

9. Were all samples collected in accordance with Section XI.B.5?

☒ Yes ☐ No

If No, see Attachment 1, Summary of Explanation.

10. Has any contained storm water been discharged from the facility this reporting year?

☒ Yes ☐ No

If Yes, see Attachment 1, Summary of Explanation.

11. Has the Discharger conducted one (1) annual evaluation during the reporting year as required in Section XV?

☒ Yes ☐ No

If Yes, what date was the annual evaluation conducted? 06/23/2023

If No, see Attachment 1, Summary of Explanation.

12. Has the Discharger maintained records on-site for the reporting year in accordance with XXI.J.3?

☒ Yes ☐ No

If No, see Attachment 1, Summary of Explanation.

13. Did additional NAL exceedances occur in the same drainage area for the facility's Level 2 parameter(s) (if no Level 2 parameters, select No)?

☒ Yes ☐ No

14. Was the Level 2 ERA Technical Report updated (if no Level 2 parameters, select No)?

☒ Yes ☐ No

If No, explain:

The Level 2 ERA Technical Report was updat

If your facility is subject to Effluent Limitation Guidelines in Attachment F of the Industrial General Permit, include your specific requirements as an attachment to the Annual Report (attach as file type: Supporting Documentation).

ANNUAL REPORT CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel propoerly gether and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name:

Title: Date:

2022-2023

Annual Report for WDID 4 19I001306

Summary of Explanations

Explanation Question	Explanation Text
Question 10	The terminal basin serves as a detention basin that slowly releases storm water over time through skimmers connected to the stand pipes.

Summary of Attachments

Attachment Type	Attachment Title	Description	Date Uploaded	Part Number	Attachment Hash
Supporting Documentation	Effluent Limitations - Landfills	Part 445 from Attachment F of IGP	06/28/2023	1/1	

2022-2023

Annual Report for WDID 4 19I001306

List of Identified Pollutants within the Impaired Watershed

Parameter	Pollutant	Present at Facility?
Ammonia	Ammonia	Yes
Cyanide	Cyanide	No
Dissolved Oxygen	Eutrophic	No
Dissolved Oxygen	Organic Enrichment/Low Dissolved Oxygen	No
E.Coli and Enterococcus	Indicator Bacteria	No
E.Coli and Enterococcus	Coliform Bacteria	No
E.Coli and Enterococcus	Fecal Coliform	No
Metals Screen	Copper	Yes
Metals Screen	Selenium, Total	Yes
Metals Screen	Selenium	Yes
Metals Screen	Lead	Yes
Nitrate, Nitrite and total Nitrogen.	Nitrate	No
Nitrate, Nitrite and total Nitrogen.	Nitrogen, Nitrate	Yes
Nitrate, Nitrite, total Nitrogen. Dissolved oxygen, temperature, and total phosphorus.	Nutrients (Algae)	No
Oil	Oil	Yes
pH	pH	Yes

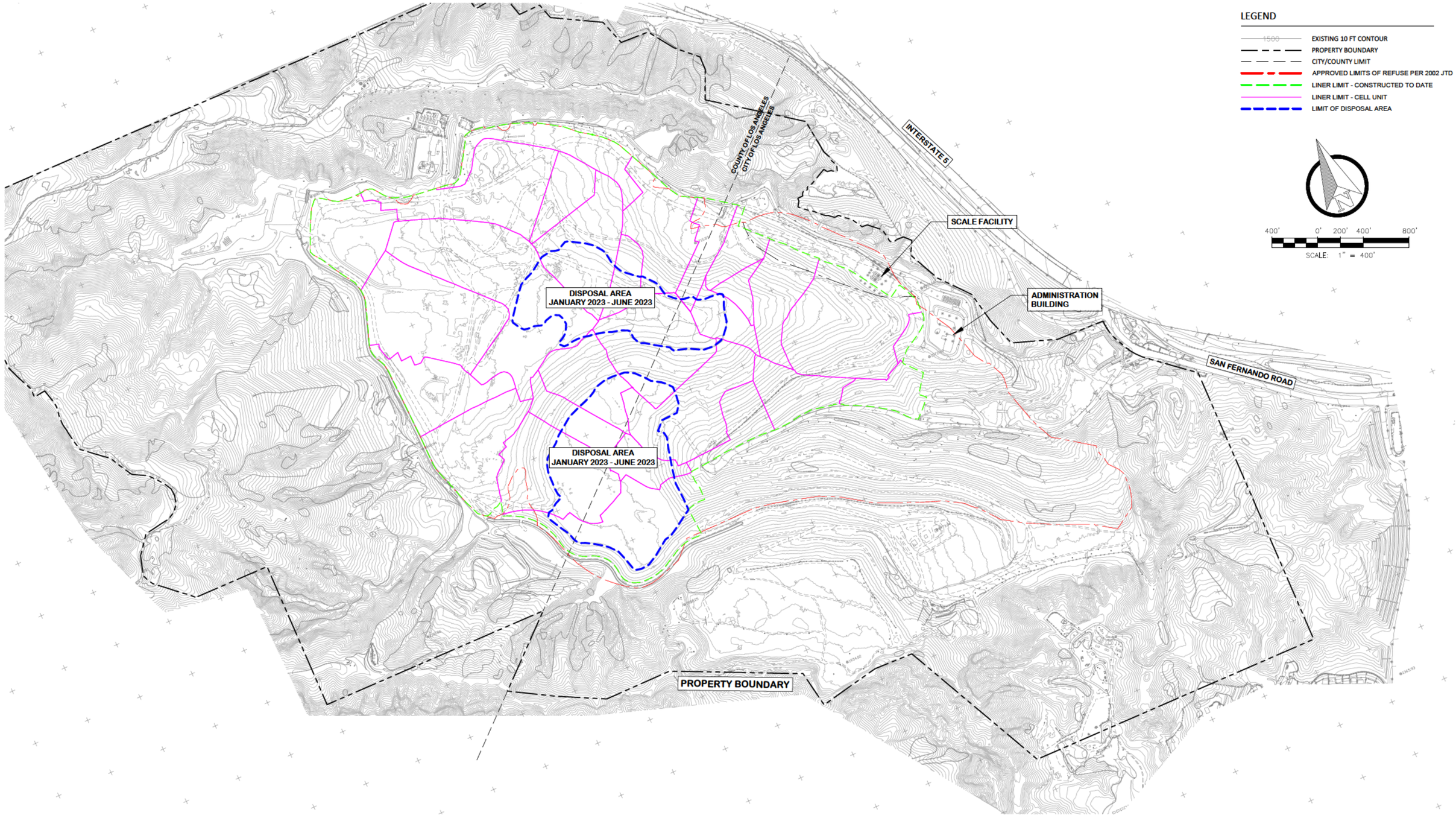
*** Does your facility storm water flow to one or more TMDL water bodies or watersheds listed in Attachment E? Yes**

*** TMDL Parameters Information**

TMDL	Waterbody/Watershed Name	Parameter Name	Discharges ?
Los Angeles River Nitrogen TMDL	Los Angeles River Watershed	Nitrate, Total (as N)	Y
Los Angeles River Nitrogen TMDL	Los Angeles River Watershed	Nitrite Plus Nitrate (as N)	Y
Los Angeles River Nitrogen TMDL	Los Angeles River Watershed	Nitrite, Total (as N)	Y
Los Angeles River Metals TMDL	Los Angeles River and Los Angeles River Tributaries	Cadmium, Total	N
Los Angeles River Metals TMDL	Los Angeles River and Los Angeles River Tributaries	Copper, Total	Y
Los Angeles River Metals TMDL	Los Angeles River and Los Angeles River Tributaries	Lead, Total	Y
Los Angeles River Metals TMDL	Los Angeles River and Los Angeles River Tributaries	Zinc, Total	N

APPENDIX E

WASTE PLACEMENT AREAS



This drawing has not been published but rather has been prepared by Geo-Logic Associates, Inc. for use by the client named in the title block, solely in respect of the construction operation, and maintenance of the facility named in the title block. Geo-Logic Associates, Inc. shall not be liable for the use of this drawing on any other facility or for any other purpose.

ISSUED FOR REVIEW

REFERENCE AERIAL TOPO BASED ON JUNE 23, 2023 AERIAL SURVEY BY FIRMATEK LLC.

REV. NO.	DATE	DESCRIPTION	APPROVED BY

DATE OF ISSUE: AUGUST 2023
DESIGNED BY: C. BARRETT
DRAWN BY: J. AMAYA
CHECKED BY: K. WELCHANS
APPROVED BY: C. BARRETT

DIGALERT 811

Geo-Logic ASSOCIATES
2777 EAST GUASTI ROAD
SUITE 1
ONTARIO, CA 91761
(909) 626-2282
www.geo-logic.com

REPUBLIC SERVICES

SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR, CA. 91342

SUNSHINE CANYON LANDFILL
SEMIANNUAL GROUNDWATER MONITORING REPORT
SYLMAR, CALIFORNIA

DISPOSAL AREAS - JAN 2023 - JUNE 2023

DWG NO. 1

PROJECT NO. S022.1032

N:\SUNSHINE CANYON\S020.1006.00 - SEMIANNUAL GW MONITORING REPORT\DWG\ET\S022.1032-SEL-2023H1-SEMIANNUAL GW REPORT.DWG Aug 10, 2023 - 6:39 PM BY: CLAUDIA E.

APPENDIX F

WASTE ACCEPTANCE REPORTS

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123Y81869	2/14/2024	

I. Decision Request: ☐ Initial ☑ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: STERICYCLE, INC.

Generator Site Address: 2775 E. 26th STREET

City: VERNON **County:** **State:** CA **Zip:**

Name of Waste: TREATED & STERILIZED MEDICAL WASTE

Estimated Annual Volume: 35,000 Tons

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

The generator must comply with all Federal, State and Local regulations regarding Disinfected (Steam Sterilized, Microwaved, Treated) Medical Waste.

This material must be buried immediately upon receipt at the landfill.

In order to keep this file active, a completed Special Waste Recertification Form must be forwarded to the Special Waste Department for review and approval on an annual basis.

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 1/13/2023

III. Facility Decision: ○ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 1/13/2023

Special Waste Profile - Recertification

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123Y81869

Sales Rep #:

I. Generator Information

Generator Name: Stericycle - Vernon

Generator Site Address: 2775 E 26th St

City: Vernon | County: Los Angeles County | State: CA | Zip: 90058-8031

State ID/Reg No: N/A | State Approval/Waste Code: N/A | NAICS: 49953

Generator Mailing Address: 2775 E 26th St

City: Vernon | County: Los Angeles County | State: CA | Zip: 90058-8031

Generator Contact Name: Alyssa Hernandez | Email: ahernandez@stericycle.com

Phone Number: 323-828-0098 | Ext: | Fax Number:

II. Waste Stream Information

Name ofiWaste: Treated and Sterilized Medical Waste

Check Section 1 or 2 below

1. ☐ ***There has been a change*** in the characteristics ofithe waste stream due to the following:
   a. Change ofia raw material used in the waste generating process.
   b. Change in the waste generating process itselfi
   c. Change in a physical characteristic ofithe waste.
   d. New information has been documented concerning the human health efiects ofiexposure to the waste.

   If any of these changes have occurred, a new prof le sheet must be completed, and new analysis and/or SDS must be provided as appropriate.
2. ☑ ***There have been no changes*** that would alter the physical characteristics ofithe special waste stream. Updated analytical may be required.

III. Representative Sample Certif cation

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample:**

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

5123Y81869

Special Waste Profile - Recertification

REPUBLIC SERVICES

IV. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Alyssa Hernandez	Facility Manager	Stericycle
Authorized Representative Name (Printed)	Title (Printed)	Company Name
Alyssa Hernandez		Jan 12, 2023
Authorized Representative Signature		Date

5123Y81869

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123141423	1/24/2026	

I. Decision Request: ☐ Initial ☑ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: Roofmaster Products Inc

Generator Site Address: 750 Montererey Pass Rd

City: Monterey Park	County:	State: CA	Zip:

Name of Waste: Waste Roofing Asphalt

Estimated Annual Volume: 70 Drums

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

This waste must be able to pass a Paint Filter Test (Test Method 9095) prior to shipment and disposal; free liquids are not permitted for landfill disposal [40 CFR 258.28].

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 3/3/2023

III. Facility Decision: ✓ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 3/3/2023

Special Waste Profile - Recertification

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123141423

Sales Rep #:

I. Generator Information

Generator Name: Roofmaster Products

Generator Site Address: 750 Monterey Pass Rd

City: Monterey Park County: Los Angeles State: California Zip: 91754

State ID/Reg No: State Approval/Waste Code: 088393160 NAICS: 333120

Generator Mailing Address ☐ (if different) PO Box 63309

City: Los Angeles County: Los Angeles State: California Zip: 90063

Generator Contact Name: James Yundt Email: james@roofmaster.com

Phone Number: 323-261-5122 Ext: Fax Number: 323-261-8799

II. Waste Stream Information

Name of Waste: Waste Roofing Asphalt

Check Section 1 or 2 below

1. ☐ ***There has been a change*** in the characteristics of the waste stream due to the following:
   a. Change of a raw material used in the waste generating process.
   b. Change in the waste generating process itself.
   c. Change in a physical characteristic of the waste.
   d. New information has been documented concerning the human health effects of exposure to the waste.

   If any of these changes have occurred, a new profile sheet must be completed, and new analysis and/or SDS must be provided as appropriate.

2. ☑ ***There have been no changes*** that would alter the physical characteristics of the special waste stream. Updated analytical may be required.

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers:

Special Waste Profile - Recertification

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original."

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

James Yundt	President	Roofmaster Products
Authorized Representative Name (Printed)	Title (Printed)	Company Name

James Yundt	03/3/2023
Authorized Representative Signature	Date

REPUBLIC SERVICES

SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: 5123141423

INVOICE TO (Generator Billing Information)	
GENERATOR NAME (the "Generator")	Roofmaster Products Inc. (account# 100437- Cash)
ATTN:	James Yundt
ADDRESS	750 Monterey Park Rd.
CITY / STATE	Monterey Park CA
ZIP CODE	90063
TEL. NO.	3232615122
FAX NO.	

LANDFILL FACILITY ("Facility")	
LEGAL ENTITY NAME	BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL
ADDRESS	14747 SAN FERNANDO RD
CITY / STATE	SYLMAR, CA 91342
ZIP CODE	
TEL. NO.	818.362.2141
FAX NO.	
AUTHORIZED BY:	
TITLE	
CONTACT	
TITLE	

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	[redacted]	Fees / Taxes / Misc.	Transportation
Waste Roofing Material	LANDFILL		NO FRF and ERF	N/A

Additional Information: SITE: SAME AS BILLING
MATERIAL CODE: VQ-SW-OFF SPEC MATERIAL | PROFILE EXPIRES 1/24/2026 | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED, APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL (LOADS MUST BE SCHEDULED 24 HOURS IN ADVANCE).

Cannot Exceed Daily Volume of 10 TONS Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3. **Term of Agreement. .** This Agreement is effective for 12 months beginning on 3/6/2023 (the "Initial Term") and shall automatically renew for successive 12 month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Generator must send to multiple parties under any Applicable Laws, Generator grants to Company the right to bid and/or compete for any future services sought by Generator, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, GENERATOR IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

James Yundt
SIGNATURE (AUTHORIZED REPRESENTATIVE)

James Yundt - President
NAME AND TITLE (PLEASE PRINT)

DATE: March 9, 2023

COMPANY

Edward Antolin
SIGNATURE (AUTHORIZED REPRESENTATIVE)

Edward Antolin MESE
NAME AND TITLE (PLEASE PRINT)

DATE: March 9, 2023

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; and/or (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. **Limited License to Enter.** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. **Charges and Payment.** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by feceral, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. **Termination/Suspension.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Generator.

11. **Personnel Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. **Indemnification.** Generator agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. The indemnification and other obligations stated in this Section 12 shall survive the expiration and termination of this Agreement.

13. **Insurance.** *Generator shall maintain in full force and effect* throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any federal, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice; provided, however, that Generator's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15. **Assignment; Performance of Services.** Generator may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than as specifically set forth in this Agreement.

17. **Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

19. **Notices.** All notices required under this Agreement shall be considered as having been given upon being placed in the mail, certified postage prepaid, addressed to Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement

GENERATOR: James Gundt COMPANY: James Gundt

E A

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123153583	**Expiration Date** 3/5/2024	
I. Decision Request:	☐ **Initial** ☑ **Recertification** ☐ **Change**		

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: Medical Waste Services LLC

Generator Site Address: 7321 Quimby Street

City: Paramount	**County:**	**State:** CA	**Zip:**

Name of Waste: Treated Medical Waste Treated APHIS Foreign Garbage FDA Confiscated Materials

Estimated Annual Volume: 2,100 Tons

II. Special Waste Department Decision: ◉ **Approved** ○ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

The generator must comply with all Federal, State and Local regulations regarding Disinfected (Steam Sterilized, Microwaved, Treated) Medical/APHIS Waste.

With each shipment the generator must provide a Certification demonstrating the waste has been autoclaved (Certificate of Treatment).

This material must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 2/13/2023

III. Facility Decision: ✓ **Approved** ○ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 2/13/2023

DocuSign Envelope ID: 9CBB6A45-2E45-4C97-A077-B17A5FE9AE4B

Special Waste Profile - Recertification

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123153583

Sales Rep #:

I. Generator Information

Generator Name: Medical Waste Services

Generator Site Address: 7321 Quimby Ave

City: Paramount County: Los Angeles County State: CA Zip: 90723-2013

State ID/Reg No: State Approval/Waste Code: N/A NAICS: 56221

Generator Mailing Address: 7321 Quimby Ave

City: Paramount County: Los Angeles County State: CA Zip: 90723-2013

Generator Contact Name: Erik T Nelson Email: enelson@mws-1.com

Phone Number: 888-610-1311 Ext: Fax Number: 562-529-3717

II. Waste Stream Information

Name of Waste: Treated Medical Waste Treated APHIS Foreign Garbage FDA Confiscated Materials

Check Section 1 or 2 below

1. ☐ ***There has been a change*** in the characteristics of the waste stream due to the following:
   a. Change of a raw material used in the waste generating process.
   b. Change in the waste generating process itself.
   c. Change in a physical characteristic of the waste.
   d. New information has been documented concerning the human health effects of exposure to the waste.

   If any of these changes have occurred, a new profile sheet must be completed, and new analysis and/or SDS must be provided as appropriate.
2. ☑ ***There have been no changes*** that would alter the physical characteristics of the special waste stream. Updated analytical may be required.

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample:**

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

5123153583

Special Waste Profile - Recertification

REPUBLIC SERVICES

IV. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Erik Nelson	Vice President of Operations	Medical Waste Services
Authorized Representative Name (Printed)	Title (Printed)	Company Name

DocuSigned by:
Erik T Nelson
5567F456C6994B9...

Authorized Representative Signature	Feb 13, 2023
	Date

5123153583

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123221224	8/1/2024	

I. Decision Request: ☐ Initial ☐ Recertification ☑ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: LOS ANGELES UNIFIED SCHOOL DISTRICT

Generator Site Address: 2450 S SHENANDOAH ST

City: LOS ANGELES **County:** **State:** CA **Zip:**

Name of Waste: NON HAZ SOIL

Estimated Annual Volume: 3,400 Cubic Yards

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Per the Special Waste Profile Change Form dated 15 June 2023, the generator has requested a time extension until 01 August 2024 in order to complete disposal of the profiled waste.

Special Waste Analyst Signature: Holly M Wilson **Name (Printed):** Holly Wilson

Date: 6/16/2023

III. Facility Decision: ☑ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 6/16/2023

Special Waste Profile - Change

REPUBLIC SERVICES

I. Generator Information

This form may be used to request changes to an existing Special Waste Profile

Generator Name: Los Angeles Unified School District

Name of Waste: 2450 S Shenandoah Street Waste Profile #: 5123221224

II. Purpose of Change

Description of change requested and reason for change
(provide detailed explanation of why the change is requested following the appropriate checked circle below).

We are requesting an extension on the profile expiration date. The duration of this project is lengthy and inconsistent due to the school's schedule. Our working schedule is limited to when students are on vacation or holiday. Site conditions have not changes since our original submittal, all data is still representative.

☐ Volume Increase By:

Is the analysis originally submitted with the Profile representative of the volume increase? ☐ Yes ☐ No ***If no, complete Section III below***

☑ Extend Expiration Date: 8/1/2024

☐ Change or Add Landfill:

☐ Add Additional Laboratory Reports: ***Complete Representative Sample Certification; Section III below***

☐ Add MSDS:

☐ Generator Name Change:

☐ Other:

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers:

Special Waste Profile - Change

REPUBLIC SERVICES

IV. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile – Change form ("Change Form"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of all changes to the Waste since its last approved Profile and all known or suspected hazards have been disclosed. All Analytical Results/Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Change Form or Certification being inaccurate or untrue. I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Change Form may be accepted with the same authority as the original.

Samantha Han	EH Supervisor	Los Angeles Unified School District
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		06/15/2023
Representative Signature		Date

REPUBLIC SERVICES

AGENT SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No. 5123231291

INVOICE TO (AGENT BILLING INFORMATION)	
AGENT NAME (the "Agent")	Heritage Disposal Inc
ATTN	Cindy Arutunian
ADDRESS	P.O. Box 1432
	625-576-7325
CITY / STATE	South Pasadena, Ca
ZIP CODE	91031

LANDFILL FACILITY ("Facility")	
NAME	BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL
ADDRESS	14747 SAN FERNANDO RD SYLMAR, CA 91342
TEL NO	818 362 2141
FAX NO	
AUTHORIZED BY	
TITLE	
CONTACT	
TITLE	

Project: SITE L & T Meat Company **County and State of Origin:** LOS ANGELES, CA

Generator Address: 3050 11th Street, Los Angeles Ca 90023

1 **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2 **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
			ERF AND FRF	
WEATHERED WOOD	LANDFILL	[redacted]		N/A

Additional Information: PROFILE EXPIRES 1/27/2023
MATERIAL CODE. VS-SW-WEATHERED WOOD | ENVIRONMENTAL RECOVERY FEE (ERF) $18.00/LOAD | FUEL RECOVERY FEE (FRF) VARIES CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Cannot Exceed Daily Volume of 13 TONS Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein:

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3 **Term of Agreement.** This Agreement is effective for 12 months beginning on 1/31/2023 (the "Initial Term") and shall automatically renew for successive 12 month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Agent must send to multiple parties under any Applicable Laws, Agent grants to Company the right to bid and/or compete for any future services sought by Agent, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, AGENT IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

AGENT

Cindy Arutunian
SIGNATURE (AUTHORIZED REPRESENTATIVE)

Cindy Arutunian Secretary
NAME AND TITLE (PLEASE PRINT)

DATE 1/31/23

COMPANY

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Michael Stewart General Manager
NAME AND TITLE (PLEASE PRINT)

DATE 1/31/23

4 **The Agreement**. This agreement (the parties this "Agreement") for the transportation and disposal of Acceptable Waste shall consist of this Agreement, orders to this Agreement (if any), any Special Waste profiles (including any approved changes and re-certifications) and Agent shall ensure that the identical Special Waste profile number on the Agreement, a Special Waste Profile, manifests, any other documentation that Agent is required to sign in connection with the transportation and disposal of Acceptable Waste, and any permits and approvals that may be applicable to the transportation and disposal of such Acceptable Waste (collectively, the "Acceptable Waste Documentation").

5 **Waste Accepted at Facility**. Agent represents, warrants and covenants that all of Agent's waste transported to and delivered for disposal at the Facility will be Acceptable Waste and will not contain any "Unacceptable Waste" which for purposes of this Agreement means any: (a) hazardous materials, substances or wastes, radioactive materials or substances, biomedical, infectious, biohazardous, toxic waste or substances, or any other pollutant, contaminant or substance that is hazardous or threatening to human health, safety or the environment, in each as determined by Company or as defined or identified by applicable federal, state, provincial, tribal and local laws, permits, licenses, regulations, rules and orders regarding the same (collectively "Applicable Laws"); or (b) waste that is not acceptable under Applicable Laws for transportation to, storage at, disposal by or processing at the applicable Facility. Agent shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste comply with all Applicable Laws.

6 **Acceptable Waste**. Only waste that satisfies each of the following criteria shall be accepted for transportation to and disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for transportation to and disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such waste to Company, Agent has provided appropriate Acceptable Waste Documentation for such Acceptable Waste and Company has approved disposal of such Acceptable Waste in writing and subject to the limitations and conditions contained in Company's written notice of approval. Company shall acquire title to Acceptable Waste when it is loaded into Company's truck. Title to, and liability for, Waste handled or disposed of by Company shall at all times remain with Generator and Agent.

7 **Rights of Refusal/Rejection**. The Agent shall inspect all Special Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) the Agent has breached (or is breaching) its representations, warranties, covenants or agreements hereunder, or any Applicable Laws, or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. The Company shall have the right to inspect all vehicles of waste haulers, including the Agent's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and Applicable Laws. The Company's exercise or failure to exercise its rights hereunder shall not operate to relieve the Agent of its responsibilities or liability under this Agreement.

8 **Limited License to Enter**. This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company and the wearing of hard hats and other personal protective equipment by all individuals allowed on the Facility premises. Agent agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from, and shall deny, an entrance license to, any of Agent's personnel whom Company believes is under the influence of alcohol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9 **Charges and Payment**. Payment shall be made by Agent within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Agent. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier. Agent hereby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party.

10 **Termination/Suspension**. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Agent's failure to timely pay any amounts due under this Agreement to Company; (b) Agent's breach of any of its obligations, representations, warranties or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Agent. Agent shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Agent's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Agent.

11 **Personnel Knowledge and Authority**. Agent represents, warrants and covenants that its personnel and agents have been advised by Agent of Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility.

12 **Indemnification.** Each party shall indemnify, defend and hold harmless the other party and its subsidiaries, affiliates and parent corporations, as applicable, and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or in connection with such party's breach of this Agreement or arising out of the negligence or willful misconduct by such party or such party's employees, agents, subcontractors or representatives. Agent further agrees to indemnify, defend, and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all Losses arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Agent or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Agent to promptly remove the Unacceptable Waste at Agent's sole expense. The indemnification and other obligations stated in this Section 11 shall survive the expiration and termination of this Agreement.

13 **Insurance**. Agent, at all material times, shall have in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Liability Insurance
Workers' compensation	Statutory
Employer's liability	$ [illegible]
General liability	$1 [illegible] per occurrence
Automobile liability (owned & non-owned)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located.

Agent shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Agent delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include contractual Liability coverage specifically covering Agent's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not thereafter be canceled, be permitted to expire or lapse, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insured under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14 **Failure to Perform**. Except for Agent's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control including, but not limited to: strikes or other labor disputes; riots; civil disturbances; sabotage; changes in law; fires; floods; compliance with governmental requests; explosions; accidents; weather; lack of required natural resources; or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any federal, state or local court or governmental authority takes any action that would: (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Agent's access to the Facility immediately, without prior notice, provided, however, that Agent's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15 **Assignment; Performance of Services**. Agent may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16 **Right of Disposal**. This Agreement does not grant any rights to dispose of waste or impose any obligations on Company to transport or dispose of waste, other than as specifically set forth in this Agreement.

17 **Continuing Compliance**. Agent has a continuing obligation to inform Company of any new information, or information not previously provided to Company by Agent, which may affect the acceptability of the waste by Company. Further, Agent shall comply with all Company requests for evidence of Agent's continuing compliance with the terms of this Agreement and any Acceptable Waste Documentation including, without limitation to the following: (a) providing new, updated Special Waste Profiles on the waste offered for transportation and disposal; (b) providing appropriate certification that the waste being offered for transportation and disposal is accurately reflected by the appropriate Special Waste Profile and; (c) re-sampling the waste at Agent's sole expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18 **Miscellaneous**.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Agent which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Agent represents, warrants and covenants that it is and during the term of this Agreement, will remain in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the parties that Agent is an authorized representative of Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

19 **Notices.** Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Agent at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20 **Liquidated Damages.** If Agent terminates this Agreement before its expiration other than as a result of a breach by Company, Agent shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Agent acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain; such amount is the best reasonable and objective estimate of the actual damages to Company; such amount does not constitute a penalty; and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

AGENT: [illegible] COMPANY _____

Storm, Samantha

From: Antolin, Edward
Sent: Tuesday, January 31, 2023 11:56 AM
To: Storm, Samantha
Subject: Re: Service Agreement

Approved, thank you

Sent via the Samsung Galaxy S20 FE 5G, an AT&T 5G smartphone
Get Outlook for Android

From: Storm, Samantha <SVega2@republicservices.com>
Sent: Tuesday, January 31, 2023 10:56:28 AM
To: Antolin, Edward <EAntolin@republicservices.com>
Subject: FW: Service Agreement

Hi ed,

Can you please approve?

Samantha Storm
Special Waste Coordinator
1145 W. Charter Way
Stockton, CA 95206
Republic Services, Inc.
Office Number: 209-547-7595
Svega2@republicservices.com

REPUBLIC SERVICES

We'll handle it from here.™

Special Waste profiles are now *online*! Our new online portal allows our customers to create new profiles, recertify profiles, view disposal tickets and more. Contact your Sales Representative or Sales Coordinator to get your account set up today. Already have an account? Log in here to manage your profiles in the Special Waste Online Account. For technical assistance please use the Contact Republic Services button.

From: Heritage Disposal <heritagedisposalinc@gmail.com>
Sent: Tuesday, January 31, 2023 10:50 AM
To: Storm, Samantha <SVega2@republicservices.com>
Subject: Re: Service Agreement

This Message Is From an External Sender
This message came from outside your organization.
Report Suspicious

On Tue, Jan 31, 2023 at 10:38 AM Heritage Disposal <heritagedisposalinc@gmail.com> wrote:

I see it didn't attach, I will send it shortly.

On Tue, Jan 31, 2023 at 10:35 AM Heritage Disposal <heritagedisposalinc@gmail.com> wrote:

Thank you, attached is the signed agreement. Are we now able to go to Sunshine Canyon at any time to dump the railroad ties or do we have to schedule a time with them?

On Tue, Jan 31, 2023 at 10:14 AM Storm, Samantha <SVega2@republicservices.com> wrote:

No, just Agent.

Thanks

Samantha Storm
Special Waste Coordinator
1145 W. Charter Way
Stockton, CA 95206
Republic Services, Inc.
Office Number: 209-547-7595
Svega2@republicservices.com

REPUBLIC SERVICES

We'll handle it from here.™

Special Waste profiles are now *online*! Our new online portal allows our customers to create new profiles, recertify profiles, view disposal tickets and more. Contact your Sales Representative or Sales Coordinator to get your account set up today. Already have an account? Log in here to manage your profiles in the Special Waste Online Account. For technical assistance please use the Contact Republic Services button.

From: Heritage Disposal <heritagedisposalinc@gmail.com>
Sent: Tuesday, January 31, 2023 10:12 AM
To: Storm, Samantha <SVega2@republicservices.com>
Subject: Re: Service Agreement

This Message Is From an External Sender

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123231291	**Expiration Date** 1/27/2024	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		
Disposal Facility: 5123 - Sunshine Canyon LF			
Generator Name: L & T MEAT COMPANY			
Generator Site Address: 3050 11TH STREET			
City: LOS ANGELES	**County:**	**State:** CA	**Zip:**
Name of Waste: RAILROAD TIES			
Estimated Annual Volume: 13 Tons			

II. Special Waste Department Decision: ◉ **Approved** ○ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5 and 25230.

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 1/30/2023

III. Facility Decision: ○ **Approved** ○ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** _____

Date: 1/30/2023

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123231291

Sales Rep #:

I. Generator Information

Generator Name: L & T Meat Company

Generator Site Address: 3050 11th Street

City: Los Angeles | County: Los Angeles | State: CA | Zip: 90023

State ID/Reg No: N/A | State Approval/Waste Code: N/A | NAICS:

Generator Mailing Address: 3050 11th Street

City: Los Angeles | County: Los Angeles | State: CA | Zip: 90023

Generator Contact Name: Jack Cheung | Email: ryanlu602@gmail.com

Phone Number: 626-576-7325 | Ext: | Fax Number:

II. Billing Information

Bill To: Heritage Disposal, Inc | Contact Name: Cindy Arutunian

Billing Address: P. O. Box 1432 | Email: heritagedisposalinc@gmail.com

City: South Pasadena | State: CA | Zip: 91031 | Phone: 626-576-7325

III. Waste Stream Information

Name ofiWaste: Railroad ties

Process Generating Waste: a clean-up ofithe property

Type ofiWaste: Industrial Process | Physical State: Solid | Method ofiShipment: Other ((2) 40 yd roll ofi)

Estimated Volume: 13 | Volume Type: Tons

Frequency: One Time | Disposal Consideration: Landfill

IV. Representative Sample Certif cation

☑ **No Sample Taken** ☐ **Sample Taken** Type ofiSample:

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

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Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this prof le.

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

	Characteristic Components (must equal 100%):	% By Weight (out ofi100% - ranges acceptable):
1.	wood	typical/actual: 100%

V. Physical Characteristics of Waste cont.

Color: Brown ()

Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
none	☐ Yes ☑ No	100%	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this prof le.

RCRA Regulatory Questions

1.	Does this waste or generating process contain regulated concentrations ofithe following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes ☑ No
2.	Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 [reference 40 CFR 261.23(a)(5)]?	☐ Yes ☑ No
3.	Does this waste contain regulated concentrations ofiPolychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes ☑ No
4.	Does this waste contain concentrations ofilisted hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes ☑ No
5.	Has this waste been delisted under 40 CFR 260.20 and 260.22? Ifiyes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes ☑ No
6.	Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	☐ Yes ☑ No
7.	Does this waste contain regulated concentrations ofi2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes ☑ No
8.	Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
9.	Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
10.	Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? Ifiyes, please provide the corresponding regulatory citation.	☐ Yes ☑ No

Republic Services Waste Handling Questions

1.	Does this waste generate heat or react when contacted with water/moisture?	☐ Yes ☑ No
2.	Does the waste contain sulfur or sulfur by-products?	☐ Yes ☑ No
3.	Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes ☑ No
4.	Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? . Ifiyes, please provide clarification.	☐ Yes ☑ No

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Special Waste Profile

REPUBLIC SERVICES

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Mike Arutunian	Foreman	Heritage Disposal, Inc.626626
Authorized Representative Name (Printed)	Title (Printed)	Company Name
Mike Arutunian		Jan 27, 2023
Authorized Representative Signature		Date

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Third Party Signature Authorization For Special Waste Disposal

REPUBLIC SERVICES

Date: 1/27/23

Profile Number:

This Authorization is only valid for 3 years from the above date.

For office use only.

To Whom It May Concern:

Please be advised that the following company/individual has been appointed to work as our agent for purposes of managing waste materials that we may generate.

Name of Waste: Railroad Ties

Mike Arutunian
Name of Authorized Agent

Foreman
Title

Heritage Disposal, Inc
Name of Company

(626)576-7325
Telephone Number

The above broker/individual is authorized to act as our authorized agent for the following purposes:

- ☑ Complete and sign Special Waste Profile
- ☑ Complete and sign Special Waste Profile-Recertification
- ☑ Authorize amendments to Special Waste Profile
- ☑ Sign contracts to dispose and/or transport material
- ☑ Sign certifications necessary to comply with landfill requirements
- ☑ Sign manifests to initiate shipment to disposal facilities

I hereby certify that I have the requisite authority to grant agency authority on the behalf of Company to the Authorized Agent identified on this Third Party Signature Authorization form ("Authorization"). Our Authorized Agent will notify Company prior to taking any of the actions authorized above and will provide Company with copies of any documents bearing Company's name.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Authorization may be accepted with the same authority as the original.

L & T Meat Company
Name of Company

3050 11th Street, Los Angeles
Mailing Address

Jack Cheung
Generator Contact (Print Name)

President
Title

Jack Cheung
Signature

(626)818-2883
Telephone Number

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123231810	**Expiration Date** 2/8/2024	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		
Disposal Facility: 5123 - Sunshine Canyon LF			
Generator Name: RAUL ALVAREZ			
Generator Site Address: 2318 MICHIGAN AVE			
City: LOS ANGELES	**County:**	**State:** CA	**Zip:**
Name of Waste: WEATHERED WOOD			
Estimated Annual Volume: 3 Tons			

II. Special Waste Department Decision: ◉ **Approved** ○ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5 and 25230.

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 2/8/2023

III. Facility Decision: ✓ **Approved** ○ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: **Name (Printed):** Kate Downey

Date: 2/8/2023

Team Environmental Manager

DocuSign Envelope ID: 84899C97-A8CA-402A-AC45-190EAF64C1CE

Express Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123231810

Sales Rep #: 585

I. Generator Information

Generator Name: Raul Alvarez

Generator Site Address: 2318 Michigan Ave

City: Los Angeles | County: Los Angeles | State: CA | Zip: 90033

State ID/Reg No: N/A | State Approval/Waste Code: N/A | NAICS:

Generator Mailing Address: 2318 Michigan Ave

City: Los Angeles | County: Los Angeles | State: CA | Zip: 90033

Generator Contact Name: Raul | Email: Raulalvarez2672@gmail.com

Phone Number: 323-620-7374 | Ext: | Fax Number:

II. Billing Information

Bill To: Raul Alvarez | Contact Name: Raul

Billing Address: 2318 Michigan Ave | Email: Raulalvarez2672@gmail.com

City: Los Angeles | State: CA | Zip: 90033 | Phone: 323-620-7374

III. Waste Stream Information

Name of Waste:

- [x] **Weathered Wood**
- [ ] **RCRA Empty Containers**
- [ ] **Treated Medical Waste**
- [ ] **Animal Carcass (non-infectious)**
- [ ] **Friable Asbestos**
- [ ] **Nonfriable Asbestos**
- [ ] **Tires**
- [ ] **Meth Contaminated Debris**

Has a sample of this waste been taken? [ ] **Yes** [x] **No**

Process Generating Waste: Railroad's at site address listed. Part of garden and was holding dirt.. removal due to new Landscaping.

Method of Shipment: Bulk | Complete if "other":

Frequency: One Time

Estimated Annual Volume: 3 | Volume Type: Tons

Color: Black () | Odor: none

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DocuSign Envelope ID: 84899C97-A8CA-402A-AC45-190EAF64C1CE

Express Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Raul Alvarez	Owner	Raul Alvarez
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: Raul Alvarez 3135A2FF090544C...		Feb 8, 2023
Authorized Representative Signature		Date

66a9de49-f1a8-4935-b763-685f23adc2a1

REPUBLIC SERVICES

SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: 5123231810

INVOICE TO (Generator Billing Information)	
GENERATOR NAME (the "Generator")	RAUL ALVAREZ (CASH 321)
ATTN:	RAUL
ADDRESS	2318 MICHIGAN AVE
CITY / STATE	LOS ANGELES CA
ZIP CODE	90033
TEL. NO.	323.620.7374
FAX NO.	

LANDFILL FACILITY ("Facility")	
LEGAL ENTITY NAME	BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL
ADDRESS	14747 SAN FERNANDO RD
CITY / STATE	SYLMAR, CA 91342
ZIP CODE	
TEL. NO.	818.362.2141
FAX NO.	
AUTHORIZED BY:	
TITLE	
CONTACT	
TITLE	

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
WEATHERED WOOD	LANDFILL	[redacted]		N/A

Additional Information: SITE: SAME AS INVOICE TO
MATERIAL CODE: VS-SW-WEATHERED WOOD | PROFILE EXPIRES 2/8/2024 | ENVIRONMENTAL RECOVERY FEE (ERF) $18.00/LOAD | FUEL RECOVERY FEE (FRF) VARIES CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Cannot Exceed Daily Volume of 3 TONS Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3. **Term of Agreement.** This Agreement is effective for 12 months beginning on 2/9/2023 (the "Initial Term") and shall automatically renew for successive 12 month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Generator must send to multiple parties under any Applicable Laws, Generator grants to Company the right to bid and/or compete for any future services sought by Generator, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, GENERATOR IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

RAUL ALVAREZ

NAME AND TITLE (PLEASE PRINT)

DATE: 2/9/23

COMPANY

SIGNATURE (AUTHORIZED REPRESENTATIVE)

EDWARD ANTOLIN, MESE

NAME AND TITLE (PLEASE PRINT)

DATE: 2/9/2023

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; and/or (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. **Limited License to Enter.** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. **Charges and Payment.** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. **Termination/Suspension.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Generator.

11. **Personnel Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. **Indemnification.** Generator agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. The indemnification and other obligations stated in this Section 12 shall survive the expiration and termination of this Agreement.

13. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any federal, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice; provided, however, that Generator's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15. **Assignment: Performance of Services.** Generator may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than as specifically set forth in this Agreement.

17. **Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

19. **Notices.** All notices required under this Agreement shall be considered as having been given upon being placed in the mail, certified postage prepaid, addressed to Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement

GENERATOR: PAUL AUBREY COMPANY: _____

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123231846	2/9/2024	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: SAN FERNANDO PD

Generator Site Address: 910 FIRST ST

City: SAN FERNANDO **County:** **State:** CA **Zip:**

Name of Waste: MARIJUANA

Estimated Annual Volume: 1,000 Pounds

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

This MARIJUANA must be rendered unrecognizable and unusable on-site at the premises of the generator prior to shipment for disposal.

This MARIJUANA must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 2/9/2023

III. Facility Decision: ⓧ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: MICHAEL STEWART, VIA EMAIL ATTACHEE **Name (Printed):** MICHAEL STEWART

Date: 2/9/2023

DocuSign Envelope ID: 3F6E67A2-AC05-43BE-B93B-21E9F882A88E

Special Waste Profile

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123231846

Sales Rep #: 585

I. Generator Information

Generator Name: San Fernando PD

Generator Site Address: 910 First ST

City: San Fernando County: Los Angeles State: CA Zip: 91340

State ID/Reg No: N/A State Approval/Waste Code: N/A NAICS:

Generator Mailing Address: 910 First ST

City: San Fernando County: Los Angeles State: CA Zip: 91340

Generator Contact Name: Nichole Hanchett Email: nhanchett@sfcity.org

Phone Number: 818-898-1253 Ext: Fax Number:

II. Billing Information

Bill To: City of San Fernando Contact Name: Fabian Valdez

Billing Address: 910 First ST Email: elara@sfcity.org

City: San Fernando State: CA Zip: 91340 Phone: 818-898-1250

III. Waste Stream Information

Name of Waste: Marijuana

Process Generating Waste: Marijuana seized from various sources. Packaged in plastic bags and mixed with soil.

Type of Waste: Industrial Process Physical State: Solid Method of Shipment: Bulk

Estimated Volume: 1000 Volume Type: Pounds

Frequency: One Time Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ **No Sample Taken** ☐ **Sample Taken** Type of Sample:

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

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Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

	Characteristic Components (must equal 100%):	% By Weight (out of 100% - ranges acceptable):
1.	Marijuana	typical/actual: 100%

V. Physical Characteristics of Waste cont.

Color: Green ()

Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
Skunky (strong)	☐ Yes ☑ No	100%	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1.	Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes ☑ No
2.	Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 [reference 40 CFR 261.23(a)(5)]?	☐ Yes ☑ No
3.	Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes ☑ No
4.	Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes ☑ No
5.	Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes ☑ No
6.	Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	☐ Yes ☑ No
7.	Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes ☑ No
8.	Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
9.	Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
10.	Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes ☑ No

Republic Services Waste Handling Questions

1.	Does this waste generate heat or react when contacted with water/moisture?	☐ Yes ☑ No
2.	Does the waste contain sulfur or sulfur by-products?	☐ Yes ☑ No
3.	Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes ☑ No
4.	Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? . If yes, please provide clarification.	☐ Yes ☑ No

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Special Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Nichole Hanchett	Lieutenant	San Fernando PD
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: Nichole Hanchett 52BBE91592A844C...		Feb 9, 2023
Authorized Representative Signature		Date

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REPUBLIC SERVICES

SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: 5123231846

INVOICE TO (Generator Billing Information)	
GENERATOR NAME (the "Generator")	
CITY OF SAN FERNANDO (CASH 321)	
ATTN:	
FABIAN VALDEZ	
ADDRESS	
910 1ST ST	
CITY / STATE	ZIP CODE
SAN FERNANDO CA	91340
TEL. NO.	FAX NO.
818.898.1250	

LANDFILL FACILITY ("Facility")	
LEGAL ENTITY NAME	
BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL	
ADDRESS	
14747 SAN FERNANDO RD	
CITY / STATE	ZIP CODE
SYLMAR, CA 91342	
TEL. NO.	FAX NO.
818.362.2141	
AUTHORIZED BY	TITLE
CONTACT	TITLE

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
OFF SPEC/MARIJUANA	LANDFILL	[redacted]		N/A

Additional Information: SITE: SAN FERNANDO PD 901 1ST ST—CERT OF DESTRUCTION AVAILABLE ON REQUEST
MATERIAL CODE: VQ-SW-OFF SPEC MATERIAL | PROFILE EXPIRES 2/9/2024 | ENVIRONMENTAL RECOVERY FEE (ERF) $18.00/LOAD | FUEL RECOVERY FEE (FRF) VARIES CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED, APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL (LOADS MUST BE SCHEDULED 24 HOURS IN ADVANCE).

Cannot Exceed Daily Volume of 1000 POUNDS Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

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Except for requests for bids that Generator must send to multiple parties under any Applicable Laws, Generator grants to Company the right to bid and/or compete for any future services sought by Generator, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, GENERATOR IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

LT. NICHOLE HANCHETT
NAME AND TITLE (PLEASE PRINT)

DATE: 2/24/23

ADMINISTRATIVE DIV. COMMANDER.

COMPANY

SIGNATURE (AUTHORIZED REPRESENTATIVE)

EDWARD ANTOLIN, MESE
NAME AND TITLE (PLEASE PRINT)

DATE: 2/22/2023

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. **Acceptable Waste**. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; and/or (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. **Limited License to Enter**. This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. **Charges and Payment**. Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. **Termination/Suspension**. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Generator.

11. **Personnel Knowledge and Authority**. Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. **Indemnification.** Generator agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. The indemnification and other obligations stated in this Section 12 shall survive the expiration and termination of this Agreement.

13. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform**. Except for Generator's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any federal, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice; provided, however, that Generator's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15. **Assignment; Performance of Services**. Generator may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than as specifically set forth in this Agreement.

17. **Continuing Compliance**. The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

19. **Notices.** All notices required under this Agreement shall be considered as having been given upon being placed in the mail, certified postage prepaid, addressed to Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: NA COMPANY: _____

#5010

Kidd, Kelly

From: Stewart, Michael
Sent: Wednesday, February 22, 2023 2:48 PM
To: Kidd, Kelly
Cc: Antolin, Edward
Subject: RE: 5123231846_SAN FERNANDO PD_2023-02-09--FOR YOUR APPROVAL

Approved.

Michael Stewart
General Manager – Sunshine Canyon LF

14747 San Fernando Rd.
Sylmar, CA 91342
e mstewart2@republicservices.com
o 210-889-9516
w RepublicServices.com

From: Kidd, Kelly <KKidd@republicservices.com>
Sent: Wednesday, February 22, 2023 1:26 PM
To: Stewart, Michael <MStewart2@republicservices.com>
Cc: Antolin, Edward <EAntolin@republicservices.com>
Subject: 5123231846_SAN FERNANDO PD_2023-02-09--FOR YOUR APPROVAL

New profile for your approval. Thanks

SPECIAL WASTE TRANSPORTATION AND DISPOSAL AGREEMENT

REPUBLIC SERVICES

Special Waste Profile Numbers: 5123232437

Generator Billing Information

Name: Michael Sorosky
Address: 1101 E. Spring St
City: Long Beach
State: CA Zip: 90806
Phone: 562-989-5709 Fax:
Contact: Michael Sorosky (MSorosky@maximcrane.com

Waste Disposal Location

Sunshine Canyon Landfill
Sunshine Canyon Rd
Sylmar, CA 91342
(818) 362-2124

Waste: Treated Wood **County and State of Origin:** Los Angeles, CA

Additional Information: Up to 1000 tons annually

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby and the Company agrees to accept at its Facility, Acceptable Waste (hereinafter referred to as "Special Waste" or "Waste") delivered by Generator, and which is acceptable to the Company as herein provided.

2. **Acceptable Waste**. Only those Special Wastes described in Paragraph 3 herein and in any Special Waste Profile(s) which number is identical to the contract number referenced above, and which Profile(s) are hereby incorporated by reference herein, and which Waste is subsequently approved by the Company and is otherwise in accordance with all laws, regulations and permits, shall be acceptable for disposal at the Facility ("Acceptable Waste").

3. **(A) Rates for Disposal/Transportation**:

Hauler	Disposal Method	Rail Trans/Disposal Rate:	Fees / Taxes / Misc.	Other
Consolidated Disposal Service, LLC	Sunshine Canyon Landfill	[redacted] handling fee		[redacted] load

Additional Information: [redacted]

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of Waived Without Prior Approval of Company

(B) Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) Manifests and BOL's
2) N/A

4. **Term of Agreement**. This Agreement commences on **02/23/2023** and shall be in effect for six months from the date of signing.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Michael Sorosky
NAME AND TITLE (PLEASE PRINT)

Operation Supervisor

REPUBLIC SERVICES, INC/COMPANY

Dania Pineda
SIGNATURE (AUTHORIZED REPRESENTATIVE)

Dania Pineda, Operations Supervisor
NAME AND TITLE (PLEASE PRINT)

2/23/23

Terms and Conditions of Special Waste Service Agreement

4. The Agreement. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. Waste Accepted at Facility. Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. Acceptable Waste. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. Rights of Refusal/Rejection. The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. Limited License to Enter. This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. Charges and Payment. Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.

11. Driver's Knowledge and Authority. Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. Indemnification. Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, tenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

13. Insurance. Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. Assignment. Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. Continuing Compliance. The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.
(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.
(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.
(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.
(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

20. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

21. Liquidated Damages. If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: _____ REPUBLIC SERVICES/COMPANY: _____

Storm, Samantha

From: Stewart, Michael
Sent: Wednesday, February 22, 2023 2:54 PM
To: Storm, Samantha
Subject: RE: 5123232437 Maxim Crane Approval

Approved.

Michael Stewart
General Manager – Sunshine Canyon LF

14747 San Fernando Rd.
Sylmar, CA 91342
e mstewart2@republicservices.com
o 210-889-9516
w RepublicServices.com

Sustainability in Action

From: Storm, Samantha <SVega2@republicservices.com>
Sent: Wednesday, February 22, 2023 10:58 AM
To: Stewart, Michael <MStewart2@republicservices.com>
Subject: 5123232437 Maxim Crane Approval

Good Morning Michael,

Can you please approve this profile?

Thanks

Samantha Storm
Special Waste Coordinator
1145 W. Charter Way
Stockton, CA 95206
Republic Services, Inc.
Office Number: 209-547-7595
Svega2@republicservices.com

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123232437	2/21/2024	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: MAXIM CRANE

Generator Site Address: 1101 E. SPRING ST

City: LONG BEACH **County:** **State:** CA **Zip:**

Name of Waste: TREATED WOOD

Estimated Annual Volume: 40 Cubic Yards

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5 and 25230.

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 2/21/2023

III. Facility Decision: ○ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** _____

Date: 2/21/2023

Special Waste Profile

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123232437

Sales Rep #: 585

I. Generator Information

Generator Name: MAXIM CRANE

Generator Site Address: 1101 E. SPRING ST

City: LONG BEACH County: LOS ANGELES State: CA Zip: 90806

State ID/Reg No: 415-24661 State Approval/Waste Code: N/A NAICS:

Generator Mailing Address: 1101 E. SPRING ST

City: LONG BEACH County: LOS ANGELES State: CA Zip: 90806

Generator Contact Name: MICHAEL SOROSKY Email: MSOROSKY@MAXIMCRANE.COM

Phone Number: 562-989-5709 Ext: Fax Number:

II. Billing Information

Bill To: MAXIM CRANE Contact Name: KELLY HEINZE

Billing Address: 1101 E. SPRING ST Email: KHEINZE@MAXIMCRANE.COM

City: LONG BEACH State: CA Zip: 90806 Phone: 562-989-5709

III. Waste Stream Information

Name of Waste: TREATED WOOD

Process Generating Waste: ROTTED/BROKEN TREATED WOODEN CRANE MATS

Type of Waste: Industrial Process Physical State: Solid Method of Shipment: Bulk

Estimated Volume: 40 Volume Type: Cubic Yards

Frequency: One Time Disposal Consideration: Landfill

IV. Representative Sample Certif cation

☑ **No Sample Taken** ☐ **Sample Taken** Type of Sample:

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

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Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this prof le.

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

	Characteristic Components (must equal 100%):	% By Weight (out of 100% - ranges acceptable):
1.	TREATED WOOD	typical/actual: 100%

V. Physical Characteristics of Waste cont.

Color: Brown ()

Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
none	☐ Yes ☑ No	100%	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this prof le.

RCRA Regulatory Questions

1.	Does this waste or generating process contain regulated concentrations of the following: Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes	☑ No
2.	Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 [reference 40 CFR 261.23(a)(5)]?	☐ Yes	☑ No
3.	Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes	☑ No
4.	Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes	☑ No
5.	Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes	☑ No
6.	Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	☐ Yes	☑ No
7.	Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes	☑ No
8.	Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
9.	Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
10.	Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes	☑ No

Republic Services Waste Handling Questions

1.	Does this waste generate heat or react when contacted with water/moisture?	☐ Yes	☑ No
2.	Does the waste contain sulfur or sulfur by-products?	☐ Yes	☑ No
3.	Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes	☑ No
4.	Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? If yes, please provide clarification.	☐ Yes	☑ No

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Special Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

MICHAEL SOROSKY	OPERATIONS SUPPORT	MAXIM CRANE
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: MICHAEL SOROSKY AB0AD01EF4D8446...		Feb 21, 2023
Authorized Representative Signature		Date

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Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123232960	3/2/2024	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: Schwans Consumer Brands

Generator Site Address: 19840 S Rancho way

City: Compton **County:** **State:** CA **Zip:**

Name of Waste: Frozen Food

Estimated Annual Volume: 25,000 Pounds

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

The waste described on this Generator Waste Profile Sheet must be in non-leaking, consumer-sized containers (small containers similar in size to that normally found in a household), as per 40 CFR 258.28(b)(1).

This FROZEN PIZZA must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 3/2/2023

III. Facility Decision: ◉ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 3/2/2023

DocuSign Envelope ID: 7BD6440F-F866-4C06-AA7A-1B4E6B02DEA4

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123 23 2960

Sales Rep #:

I. Generator Information

Generator Name: Schwans Consumer Brands

Generator Site Address: 19840 S Rancho Way

City: Compton County: Los Angeles State: CA Zip: 90220

State ID/Reg No: N/A State Approval/Waste Code: N/A NAICS:

Generator Mailing Address: 19840 S Rancho Way

City: Compton County: Los Angeles State: CA Zip: 90220

Generator Contact Name: Mike Romine Email: michael.romine@schwans.com

Phone Number: 714-797-9465 Ext: Fax Number:

II. Billing Information

Bill To: Schwans Consumer Brands Contact Name: Mike Romine

Billing Address: 19840 S Rancho Way Email: michael.romine@schwans.com

City: Compton State: CA Zip: 90220 Phone: 714-797-9465

III. Waste Stream Information

Name of Waste: Frozen Foods

Process Generating Waste: Expired frozen food

Type of Waste: Industrial Process Physical State: Solid Method of Shipment: Bulk

Estimated Volume: 25000 Volume Type: Pounds

Frequency: One Time Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ **No Sample Taken** ☐ **Sample Taken** Type of Sample:

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

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DocuSign Envelope ID: 7BD6440F-F866-4C06-AA7A-1B4E6B02DEA4

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

	Characteristic Components (must equal 100%):	% By Weight (out of 100% - ranges acceptable):
1.	Consumer packaged pizza	typical/actual: 100%

V. Physical Characteristics of Waste cont.

Color: Brown ()

Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
none	☐ Yes ☑ No	100%	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1.	Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes ☑ No
2.	Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 [reference 40 CFR 261.23(a)(5)]?	☐ Yes ☑ No
3.	Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes ☑ No
4.	Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes ☑ No
5.	Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes ☑ No
6.	Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	☐ Yes ☑ No
7.	Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes ☑ No
8.	Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
9.	Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
10.	Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes ☑ No

Republic Services Waste Handling Questions

1.	Does this waste generate heat or react when contacted with water/moisture?	☐ Yes ☑ No
2.	Does the waste contain sulfur or sulfur by-products?	☐ Yes ☑ No
3.	Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes ☑ No
4.	Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? . If yes, please provide clarification.	☐ Yes ☑ No

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DocuSign Envelope ID: 7BD6440F-F866-4C06-AA7A-1B4E6B02DEA4

Special Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Mike Romine	Distribution Supervisor	Schwans Consumer Brands
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: Mike Romine BE3ED99CCAAA4AD...		Mar 2, 2023
Authorized Representative Signature		Date

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REPUBLIC SERVICES

SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: 5123227372

INVOICE TO (Generator Billing Information)	
GENERATOR NAME (the "Generator")	Schwan's (Acct# 333492)
ATTN:	Michael Romine
ADDRESS	19840 S. Rancho Way
CITY / STATE	Compton, CA
ZIP CODE	90220
TEL. NO.	714-797-9465
FAX NO.	

LANDFILL FACILITY ("Facility")	
LEGAL ENTITY NAME	BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL
ADDRESS	14747 SAN FERNANDO RD
CITY / STATE	SYLMAR, CA 91342
ZIP CODE	
TEL. NO.	818.362.2141
FAX NO.	
AUTHORIZED BY:	
TITLE	
CONTACT	
TITLE	

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
FOOD WASTE/Frozen foods/ pizza	LANDFILL	[redacted]	FRF AND ERF APPLY	N/A

Additional Information: SITE: Bill Schwan's National Account
MATERIAL CODE: XD-SW-FOOD WASTE | PROFILE EXPIRES 06/03/2025 | ENVIRONMENTAL RECOVERY FEE (ERF) $18.00/LOAD | FUEL RECOVERY FEE (FRF) VARIES CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Cannot Exceed Daily Volume of 25,000 POUNDS Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3. **Term of Agreement.** . This Agreement is effective for 12 months beginning on 3/06/2023 (the "Initial Term") and shall automatically renew for successive 12 month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Generator must send to multiple parties under any Applicable Laws, Generator grants to Company the right to bid and/or compete for any future services sought by Generator, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, GENERATOR IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

MIKE ROMINE - DIST. SUPERVISOR

COMPANY

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Edward Antolin - MESE

NAME AND TITLE (PLEASE PRINT)

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. **Acceptable Waste**. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; and/or (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. **Limited License to Enter**. This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. **Charges and Payment**. Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. **Termination/Suspension**. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Generator.

11. **Personnel Knowledge and Authority**. Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. **Indemnification.** Generator agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, trustees, employees, subcontractors and agents (collectively, the "Company Indemnified

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform**. Except for Generator's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any feceral, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice; provided, however, that Generator's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15. **Assignment; Performance of Services**. Generator may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than as specifically set forth in this Agreement.

17. **Continuing Compliance**. The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123233500	3/13/2026	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: Ventura Transfer Company

Generator Site Address: 2418 E 223rd St

City: Long Beach **County:** **State:** CA **Zip:**

Name of Waste: Treated Wood Waste

Estimated Annual Volume: 2 Tons

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

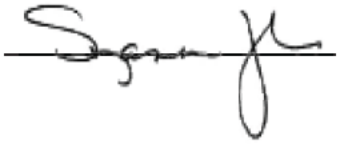
Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5, 25150.7 and 25150.8.

Special Waste Analyst Signature:  **Name (Printed):** Suzanne Glass

Date: 3/13/2023

III. Facility Decision: ✓ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 3/13/2023

DocuSign Envelope ID: 61A7A6A4-25FF-4698-82DF-971BC2ADF736

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123 23 3500

Sales Rep #: Ed 585

I. Generator Information

Generator Name: Ventura Transfer Company

Generator Site Address: 2418 E. 223rd St

City: Long Beach | County: Los Angeles | State: CA | Zip: 90810

State ID/Reg No: CAD009774167 | State Approval/Waste Code: 614 | NAICS:

Generator Mailing Address: 2418 E. 223rd St

City: Long Beach | County: Los Angeles | State: CA | Zip: 90810

Generator Contact Name: Richard Cavaliero | Email: safety@venturatransfer.com

Phone Number: 310-549-1660 | Ext: 303 | Fax Number:

II. Billing Information

Bill To: Ventura Transfer Company | Contact Name: Richard Cavaliero

Billing Address: 2418 E. 223rd St | Email: safety@venturatransfer.com

City: Long Beach | State: CA | Zip: 90810 | Phone: 310-549-1660

III. Waste Stream Information

Name of Waste: Treated Wood Waste

Process Generating Waste: Railroad ties are used to stage loaded bulk chemical containers

Type of Waste: Industrial Process | Physical State: Solid | Method of Shipment: Other (Loose railroad ties)

Estimated Volume: 2 | Volume Type: Tons

Frequency: Ongoing | Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ **No Sample Taken** ☐ **Sample Taken** Type of Sample:

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS: Creosote Pressure Treated Wood

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Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

DocuSign Envelope ID: 61A7A6A4-25FF-4698-82DF-971BC2ADF736

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

	Characteristic Components (must equal 100%):	% By Weight (out of 100% - ranges acceptable):
1.	Wood	typical/actual: 85%
2.	Creosote	typical/actual: 15%

V. Physical Characteristics of Waste cont.

Color: Brown ()

Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
Tar Odor (slight)	☐ Yes ☑ No	100%	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1.	Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes	☑ No
2.	Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 [reference 40 CFR 261.23(a)(5)]?	☐ Yes	☑ No
3.	Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes	☑ No
4.	Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes	☑ No
5.	Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes	☑ No
6.	Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? 614 - CA: Potential toxicity	☑ Yes	☐ No
7.	Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes	☑ No
8.	Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
9.	Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
10.	Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes	☑ No

Republic Services Waste Handling Questions

1.	Does this waste generate heat or react when contacted with water/moisture?	☐ Yes	☑ No
2.	Does the waste contain sulfur or sulfur by-products?	☐ Yes	☑ No
3.	Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes	☑ No
4.	Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? . If yes, please provide clarification.	☐ Yes	☑ No

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Special Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Roberto Figueroa	Safety Coordinator	Ventura Transfer Company
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: Roberto Figueroa 4631C7FE551848B...		Mar 13, 2023
Authorized Representative Signature		Date

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Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
CREOSOTE PRESSURE TREATED WOOD

Product Use
Industrial wood products; specifically railroad ties, utility poles, and marine pilings.

Restrictions on Use
Creosote treated wood is intended for exterior/outdoor uses and only those applications approved by the American Wood Protection Association (AWPA) Use Category System as set forth in the most current edition of the AWPA Book of Standards. Refer to preservative label for more details.

Details of the supplier of the safety data sheet
KOPPERS INC.
436 Seventh Avenue
Pittsburgh, PA 15219-1800
Mfg Contact: 412-227-2001 (SDS Requests: 866-852-5239)

CHEMTREC: 800-424-9300 (Outside USA: +1 703-527-3887)
Emergencies: (Medical in USA): 877-737-9047
Emergencies: (Medical Outside of USA): 651-632-9269
E-mail: naorgmsds@koppers.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Combustible Dust
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Respiratory Sensitization - Category 1
Skin Sensitization - Category 1
Carcinogenicity - Category 1A
Specific target organ toxicity - Single exposure - Category 3 (respiratory system)

GHS Label Elements

Symbol(s)

Signal Word
Danger

Hazard Statement(s)
May form combustible dust concentrations in air (during handling or processing).
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

May cause cancer.
May cause respiratory irritation.

Precautionary Statement(s)

Prevention
Avoid breathing dust.
Wash thoroughly after handling.
Wear respiratory protection.
Contaminated work clothing should not be allowed out of the workplace.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/clothing and eye/face protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Response
IF exposed or concerned: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage
Store in a well-ventilated place.
Store locked up.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards
None known.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
Not Available	WOOD DUST, HARDWOODS	<85
Not Available	WOOD DUST, SOFTWOODS	<85
8001-58-9	Creosote	<15

Component Related Regulatory Information
This product may be regulated, have exposure limits or other information identified as the following: Wood dusts hard wood, Wood dusts (birch, mahogany, teak, walnut), Wood dusts (all other wood dusts), Wood dust, western red cedar, Wood dust, all soft and hard woods, Particulates not otherwise classified (PNOC), Wood dust, western red cedar, Wood dust, all soft and hard woods, Creosotes, Aromatic hydrocarbons, polycyclic (130489-29-2).

Section 4 - FIRST AID MEASURES

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

Skin
Take off contaminated clothing. Wash with plenty of soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. Skin contact causes photosensitization which can last for 36-72 hours after exposure. Keep out of direct sunlight for the next two to three days to avoid sunburn to the photosensitized skin areas. Use a broad spectrum blockout cream to protect against UV alpha ray exposure. Get medical attention, if needed.

Eyes
DO NOT rub eyes. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

Ingestion
If swallowed, get medical attention.

Most Important Symptoms/Effects
Acute
respiratory tract irritation, skin irritation, eye irritation, allergic reactions
Delayed
allergic reactions, nasal cancer, skin cancer

Indication of any immediate medical attention and special treatment needed
For inhalation, consider oxygen.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
water stream, water spray or fog
Unsuitable Extinguishing Media
Do not scatter spilled material with high-pressure water streams.

Special Hazards Arising from the Chemical
Slight fire hazard. Avoid generating dust.

Hazardous Combustion Products
Oxides of carbon, oxides of nitrogen

Fire Fighting Measures
Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Keep unnecessary people away, isolate hazard area and deny entry.

Special Protective Equipment and Precautions for Firefighters
Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment. Collect spillage.

Methods and Materials for Containment and Cleaning Up
Collect material in appropriate container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect using a vacuum cleaner with a HEPA filter or wet and scoop up dry spills. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are

released into the atmosphere in sufficient concentration. Avoid sweeping spilled dry material. If sweeping of a contaminated area is necessary, use a dust suppressant agent. Eliminate all sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry. Due to the concentration of Creosote and the CERCLA (40 CFR 302.4) reportable quantity of 1 pound, the release of 6 pounds of this product requires National Response Center notification.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Avoid breathing dust. Wash thoroughly after handling. Wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Dry wood dust material is defined as having a water content less than 25% by weight. Avoid frequent or prolonged inhalation of sawdust from treated wood. When sawing and machining treated wood, wear a dust mask. When power-sawing and machining, wear goggles to protect eyes from flying particles. Whenever possible, these operations should be performed outdoors to avoid indoor accumulations of airborne sawdust from treated wood. Avoid frequent or prolonged skin contact with creosote-treated wood; when handling the treated wood, wear long-sleeved shirts and long pants and use gloves impervious to the chemicals (for example, gloves that are vinyl-coated). Use protective skin cream on exposed skin before and during work shift. To reduce sun sensitivity a sun-blocking lotion can also be applied prior to application of a protective cream. After working with the wood, and before eating, drinking and use of tobacco products, wash exposed areas thoroughly. If oily preservative or sawdust accumulate on clothes, launder before reuse. Wash work clothes separately from other household clothing.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place.
Store locked up.
Store and handle in accordance with all current regulations and standards. Avoid heat, flames, sparks and other sources of ignition. Keep container tightly closed.

Incompatible Materials

oxidizing materials, acids

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

In AFL-CIO v OSHA, 965 F. 2d 962 (11th Cir. 1992), the Court overturned OSHA's 1989 Air Contaminants Rule, including the specific PEL's for wood dust that OSHA had established at that time. The 1989 vacated PEL's were: 5 mg/m3 PEL-TWA and 10 mg/m3 STEL (15 min), all softwood and hardwood except Western Red Cedar. Wood dust is now regulated by OSHA as "Particulates Not Otherwise Regulated" (PNOR), which is also referred to as "nuisance dust". However, some states have incorporated the 1989 OSHA PEL's in their state plans. Additionally, OSHA indicated that it may cite employers under the OSHA general duty clause in appropriate circumstances for noncompliance with the 1989 PEL's. Creosote is a complex mixture of variable composition, and while no odor threshold for creosote has been established, work done at the University of California has measured the odor thresholds for one of the more volatile components in creosote and determined that the involved odor threshold is in the part per billion range, and well below applicable exposure limits. On the basis of these data the perception of creosote odor in and of itself should not be taken as an indication of exposure in excess of accepted exposure limits. Exposure to wood dust would not be expected under normal use conditions. If handling or use patterns associated with creosote treated wood involve the use of a power saw, sander, drill or any tool or activity resulting in the generation of airborne particulate the wood dust exposure limits should be observed and appropriate steps taken to minimize exposure.

Component Exposure Limits

WOOD DUST, HARDWOODS	**Not Available**
ACGIH:	1 mg/m3 TWA inhalable particulate matter (related to Wood dusts (all other wood dusts))
OSHA (US):	15 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable fraction (related to Particulates not otherwise classified (PNOC))
	15 mppcf TWA respirable fraction ; 5 mg/m3 TWA respirable fraction ; 50 mppcf TWA total dust ; 15 mg/m3 TWA total dust (related to Particulates not otherwise classified (PNOC))
WOOD DUST, SOFTWOODS	**Not Available**
ACGIH:	1 mg/m3 TWA inhalable particulate matter (related to Wood dusts (all other wood dusts))
OSHA (US):	15 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable fraction (related to Particulates not otherwise classified (PNOC))
	15 mppcf TWA respirable fraction ; 5 mg/m3 TWA respirable fraction ; 50 mppcf TWA total dust ; 15 mg/m3 TWA total dust (related to Particulates not otherwise classified (PNOC))
Creosote	**8001-58-9**
ACGIH:	0.2 mg/m3 TWA as benzene-soluble aerosol (related to Pitch, coal tar, high-temperature)
OSHA (US):	0.2 mg/m3 TWA (benzene soluble fraction) (related to Pitch, coal tar, high-temperature)

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

Creosote (8001-58-9)

2.5 µg/l Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (background); Medium: urine Time: end of shift at end of workweek Parameter: 3-Hydroxybenzo(a)pyrene with hydrolysis (nonquantitative) (related to Polycyclic aromatic hydrocarbons)

Engineering Controls

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or process enclosure ventilation system. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

ANSI Z87.1-1989 approved safety glasses with side shields.

Skin Protection

Wear tightly woven long-sleeved shirts and long pants. Remove and launder contaminated clothing separately from other laundry before reuse.

Respiratory Protection
Any air-purifying respirator with a high-efficiency particulate filter.

Glove Recommendations
Individuals must wear gloves impervious to the wood treatment formulations in all situations where dermal contact with creosote is expected.

Protective Materials
Examples of impervious materials for protective clothing (e.g. overalls, jackets, gloves and boots) required during application and handling of creosote are polyvinyl acetate (PVA), polyvinyl chloride (PVC), Neoprene and NBR (Buna-N). Protective clothing must be changed when it shows signs of contamination.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	dark brown to black solid	**Physical State**	solid
Odor	Not available	**Color**	dark , brown to black
Odor Threshold	Not available	**pH**	Not applicable
Melting Point	Not applicable	**Boiling Point**	Not applicable
Boiling Point Range	Not available	**Freezing point**	Not applicable
Evaporation Rate	Not applicable	**Flammability (solid, gas)**	Not flammable
Autoignition Temperature	Not available	**Flash Point**	Not applicable
Lower Explosive Limit	Not available	**Decomposition temperature**	Not available
Upper Explosive Limit	Not available	**Vapor Pressure**	Not applicable
Vapor Density (air=1)	Not applicable	**Specific Gravity (water=1)**	Not available
Water Solubility	Not available	**Partition coefficient: n-octanol/water**	Not available
Viscosity	Not applicable	**Kinematic viscosity**	Not available
Solubility (Other)	Not available	**Density**	Not available

Physical Form	Pressure treated poles and crossties - treated at a retention level of 7-9 lbs/ft3 , with a wood density of 45-55 lbs/ft3. Pressure treated piling - treated at a retention level of 12-20 lbs/ft3 , Actual retention level dependent on wood stock, moisture levels, and customer specifications	**Molecular Weight**	Not available

Other Information
No additional information is available.

Section 10 - STABILITY AND REACTIVITY

Reactivity
No reactivity hazard is expected.

Chemical Stability
Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions
Will not polymerize.

Conditions to Avoid
Avoid heat, flames, sparks and other sources of ignition. Avoid accumulation of airborne dusts. Avoid contact with incompatible materials.

Incompatible Materials
oxidizing materials, acids

Hazardous decomposition products
oxides of carbon, oxides of nitrogen

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
irritation, allergic reactions, nasal cancer

Skin Contact
irritation, allergic reactions, skin cancer

Eye Contact
irritation

Ingestion
gastrointestinal irritation, bloating

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
Creosote (8001-58-9)
Dermal LD50 Rabbit >2000 mg/kg

Product Toxicity Data

Acute Toxicity Estimate

Dermal	>2000 mg/kg

Inhalation - Vapor	>5 mg/L
Oral	>2000 mg/kg

Immediate Effects
respiratory tract irritation, skin irritation, eye irritation, allergic reactions

Delayed Effects
allergic reactions, nasal cancer, skin cancer

Irritation/Corrosivity Data
No data available.

Respiratory Sensitization
Component data indicate the substance is sensitizing.

Dermal Sensitization
Component data indicate the substance is sensitizing.

Component Carcinogenicity

WOOD DUST, HARDWOODS	**Not Available**
ACGIH:	A1 - Confirmed Human Carcinogen (related to Wood dusts-hard wood)
IARC:	Monograph 100C [2012] ; Monograph 62 [1995] (related to Wood dust, all soft and hard woods) (Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen (related to Wood dust, all soft and hard woods)
NIOSH:	potential occupational carcinogen (related to Wood dust, all soft and hard woods)
WOOD DUST, SOFTWOODS	**Not Available**
ACGIH:	A4 - Not Classifiable as a Human Carcinogen (related to Wood dusts (all other wood dusts))
IARC:	Monograph 100C [2012] ; Monograph 62 [1995] (related to Wood dust, all soft and hard woods) (Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen (related to Wood dust, all soft and hard woods)
NIOSH:	potential occupational carcinogen (related to Wood dust, all soft and hard woods)
Creosote	**8001-58-9**
ACGIH:	A1 - Confirmed Human Carcinogen (related to Pitch, coal tar, high-temperature)
IARC:	Monograph 100F [2012] ; Supplement 7 [1987] ; Monograph 35 [1985] (related to Pitch, coal tar, high-temperature) (Group 1 (carcinogenic to humans))
IARC:	Monograph 92 [2010] ; Supplement 7 [1987] ; Monograph 35 [1985] (Group 2A (probably carcinogenic to humans))

NTP:	Known Human Carcinogen (related to Pitch, coal tar, high-temperature)
NIOSH:	potential occupational carcinogen

Germ Cell Mutagenicity
No data available.

Tumorigenic Data
No data available

Reproductive Toxicity
No data available.

Specific Target Organ Toxicity - Single Exposure
respiratory system

Specific Target Organ Toxicity - Repeated Exposure
No data available.

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
respiratory disorders, skin disorders and allergies

Additional Data
This product contains coal tar creosote. Volume 35 of the IARC monograph states that there is limited evidence that coal tar derived creosotes are carcinogenic in humans and sufficient evidence for the carcinogenicity of creosote in experimental animals. Limitations in the human exposure studies reviewed by IARC (including the presence of other chemicals, small study populations and not well documented exposure levels) contributed to IARC's conclusions regarding human exposure to creosote. When applied to the skin of mice in experimental studies, creosote produced skin tumors and in one study produced lung tumors. Most available information on the effects of coal tar creosote in humans comes from older occupational studies in the wood-preserving and construction industries. Today, with the use of engineering controls and personal protective equipment, occupational exposure to creosote components is expected to be below permissible exposure limits (measured as Coal Tar Pitch Volatiles). Wood dust is particles of varying size produced from processing or handling wood. Cancer of the nasal cavities and sinuses is associated with exposure to hardwood dust. IARC concluded that there were too few studies to evaluate cancer risks attributable to exposure to softwood alone and to any particular species of wood. In view of the overall lack of consistent findings, IARC also concluded that there is no indication that occupational exposure to wood dust has a causal role in cancers of the throat, lung, lymphatic and blood systems, stomach, colon or rectum. Different woods produce different health effects and there is evidence that wood from different trees of the same species can produce varying health effects. Woods other than Western Red Cedar (WRC) seem unlikely to be responsible for large numbers of cases of respiratory allergies. Other common wood dusts produce asthma/pulmonary effects that are less well described than the responses to WRC. These other wood species (e.g., oak and pine) are considered somewhat allergenic.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Creosote	**8001-58-9**
Fish:	LC50 96 h Brachydanio rerio 2.6 - 6.6 mg/L [static]; LC50 96 h Oncorhynchus mykiss 0.57 mg/L [static]

Invertebrate:	EC50 48 h Daphnia magna 1.04 mg/L IUCLID ; EC50 48 h Daphnia magna 0.065 - 0.082 mg/L [Static] EPA

Persistence and Degradability
No information available for the product.

Bioaccumulative Potential
No information available for the product.

Mobility
No information available for the product.

Other Toxicity
No data available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose in accordance with all applicable regulations. Treated wood should not be burned in open fires or in stoves, fireplaces or residential boilers, because toxic chemicals may be produced as part of the smoke and ashes. Treated wood from commercial or industrial use (e.g., construction sites) may be burned only in commercial or industrial incinerators or boilers in accordance with state and federal regulations. For more information please see Koppers Consumer Information Sheet for this product. RCRA Waste Number U051 – applies only to creosote in liquid form.

Component Waste Numbers
The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
Marine pollutant
Further information: No classification assigned

IATA Information:
Marine pollutant
Further information: No classification assigned

TDG Information:
Marine pollutant
Further information: No classification assigned

International Bulk Chemical Code
This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Creosote	**8001-58-9**
IBC Code:	Category X (coal tar)

Further information
Component Marine Pollutants This material does not contain any chemicals listed on the Hazardous Materials Table required by US DOT to be identified as a marine pollutant.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Creosote	**8001-58-9**
SARA 313:	0.1 % de minimis concentration
CERCLA:	1 lb final RQ ; 0.454 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Combustible Dust; Carcinogenicity; Skin Corrosion/Irritation; Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
WOOD DUST, HARDWOODS	**Not Available**	No	No	Yes	Yes	Yes
WOOD DUST, SOFTWOODS	**Not Available**	No	No	Yes	Yes	No
Creosote	**8001-58-9**	Yes	Yes	Yes	Yes	Yes

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

WARNING

This product can expose you to chemicals including WOOD DUST, HARDWOODS, WOOD DUST, SOFTWOODS, Creosote , which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Canada Regulations

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Creosote	**8001-58-9**
	0.1 % (related to Pitch, coal tar, high-temperature)

WHMIS Classification

D2A , D2B

Component Analysis - Inventory

WOOD DUST, HARDWOODS (Not Available)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

WOOD DUST, SOFTWOODS (Not Available)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

Creosote (8001-58-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	No

U.S. Inventory (TSCA)
This product is exempt.

Section 16 - OTHER INFORMATION

Further information
This wood product contains a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

NFPA Ratings
Health: 2 Fire: 1 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes
Update: 7/19/2018; MSDS SUMMARY OF CHANGES: SECTION 15 - CA Proposition 65

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing

Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:

The information set forth in this Safety Data Sheet does not purport to be all-inclusive and should be used only as a guide. While the information and recommendations set forth herein are believed to be accurate, the company makes no warranty regarding such information and recommendations and disclaims all liability from reliance thereon.

SPECIAL WASTE TRANSPORTATION AND DISPOSAL AGREEMENT

REPUBLIC SERVICES

Special Waste Profile Numbers: _____

Generator Billing Information		Waste Disposal Location
Name:	Richard Cavaliero	Sunshine Canyon Landfill
Address:	2418 E 223rd Street	Sunshine Canyon Rd
City:	Long Beach	Sylmar, CA 91342
State:	CA Zip: 90810	(818) 362-2124
Phone:	310-427-0420 Fax:	
Contact:	Richard Cavaliero (rcavaliero@venturatransfer.com)	

Waste: Railroad Ties **County and State of Origin:** Los Angeles, CA

Additional Information: Up to 1000 tons annually

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby and the Company agrees to accept at its Facility, Acceptable Waste (hereinafter referred to as "Special Waste" or "Waste") delivered by Generator, and which is acceptable to the Company as herein provided.

2. **Acceptable Waste**. Only those Special Wastes described in Paragraph 3 herein and in any Special Waste Profile(s) which number is identical to the contract number referenced above, and which Profile(s) are hereby incorporated by reference herein, and which Waste is subsequently approved by the Company and is otherwise in accordance with all laws, regulations and permits, shall be acceptable for disposal at the Facility ("Acceptable Waste").

3. **(A) Rates for Disposal/Transportation:**

Hauler	Disposal Method	Rail Trans/Disposal Rate:	Fees / Taxes / Misc.	Other
Consolidated Disposal Service, LLC	Sunshine Canyon Landfill	[redacted]		[redacted]

Additional Information: [redacted]

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of Waived Without Prior Approval of Company.

(B) Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) Manifests and BOL's 2) N/A

4. **Term of Agreement**. This Agreement commences on **4/05/2023** and shall be in effect for six months from the date of signing.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

Richard Cavaliero
SIGNATURE (AUTHORIZED REPRESENTATIVE)

Richard Cavaliero Safety Director
NAME AND TITLE (PLEASE PRINT)

REPUBLIC SERVICES, INC/COMPANY

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Dania Pineda, Operations Supervisor
NAME AND TITLE (PLEASE PRINT)

4/5/23

4. The Agreement. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. Waste Accepted at Facility. Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. Acceptable Waste. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. Rights of Refusal/Rejection. The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. Limited License to Enter. This Agreement provides Hauler with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Hauler's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Hauler's personnel shall promptly leave the Facility. Under no circumstances shall Hauler or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Hauler agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Hauler's personnel whom Company believes is under the influence of alcohol or other chemical substances. Hauler shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. Charges and Payment. Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.

11. Driver's Knowledge and Authority. Hauler represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. Indemnification. Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

Terms and Conditions of Special Waste Service Agreement

13. Insurance. Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Hauler delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. Assignment. Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. Continuing Compliance. The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

20. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

21. Liquidated Damages. If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: _____ REPUBLIC SERVICES/COMPANY: _____

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123233589	3/7/2026	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: City of Long Beach Harbor Department

Generator Site Address: Gerald Desmond Bridge Ocean Blvd

City: Long Beach **County:** **State:** CA **Zip:**

Name of Waste: Weathered Wood

Estimated Annual Volume: 10 Tons

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5 and 25230.

Special Waste Analyst Signature: Joseph Sorokach **Name (Printed):** Joseph Sorokach

Date: 3/14/2023

III. Facility Decision: ☑ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 3/14/2023

DocuSign Envelope ID: 96A499DB-832B-4EBA-B462-68FF69554C2F

Express Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123 23 3589

Sales Rep #:

I. Generator Information

Generator Name: City of Long Beach Harbor Dept.

Generator Site Address: Gerald Desmond Bridge Ocean Blvd

City: Long Beach County: Los Angeles State: CA Zip: 90802

State ID/Reg No: CAR000113118 State Approval/Waste Code: 614 NAICS:

Generator Mailing Address: 415 W Ocean Blvd

City: Long Beach County: Los Angeles State: CA Zip: 90802

Generator Contact Name: Stuart Gerendas, Environmental Specialist Email: mark.bierei@associates.polb.com

Phone Number: 310-200-1510 Ext: Fax Number:

II. Billing Information

Bill To: 1036 - Kiewit Infrasture West Co. Contact Name: Jarrod Wagner

Billing Address: PO Box 452500 Email: kbs.invoicesap@kiewit.com

City: Omaha State: NE Zip: 90802 Phone: 402-938-4190

III. Waste Stream Information

Name of Waste:

- [x] **Weathered Wood**
- [ ] **RCRA Empty Containers**
- [ ] **Treated Medical Waste**
- [ ] **Animal Carcass (non-infectious)**
- [ ] **Friable Asbestos**
- [ ] **Nonfriable Asbestos**
- [ ] **Tires**
- [ ] **Meth Contaminated Debris**

Has a sample of this waste been taken? [ ] **Yes** [x] **No**

Process Generating Waste: This material was generated during demolition of existing port facilities. Material is creosote treated wood waste.

Method of Shipment: Bulk Complete if "other":

Frequency: Ongoing

Estimated Annual Volume: 10 Volume Type: Tons

Color: Brown () Odor: Creosote (mild)

9690ace7-56ed-424d-8b77-eecbdeb6425f

Express Waste Profile

REPUBLIC SERVICES

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Stuart Gerendas, Environmental Specialist	Environmental Specialist	Port of Long Beach
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		Mar 7, 2023
Authorized Representative Signature		Date

9690a1c7-56ed-424d-8b77-eecbdeb6425f

REPUBLIC SERVICES

AGENT SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: 5123233589

INVOICE TO (AGENT BILLING INFORMATION)	
AGENT NAME (the "Agent")	1036- Kiewit Infrastructure West CO
ATTN: JACROS 9L 3/15/23	James Wagner – kbs.invoicesap@kiewit.com
ADDRESS	PO Box 452500
CITY / STATE	Omaha, NE
ZIP CODE	90802

LANDFILL FACILITY ("Facility")	
LEGAL ENTITY NAME	BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL
ADDRESS	14747 SAN FERNANDO RD SYLMAR, CA 91342
TEL. NO.	818.362.2141
FAX NO.	
AUTHORIZED BY:	
TITLE	
CONTACT	
TITLE	

Project: GERALD DESMOND BRIDGE DEMOLITION- 9L 3/15/23 SITE: City of LB Harbor Dept. **County and State of Origin:** LOS ANGELES, CA

Generator Address: Gerald Desmond Bridge- Ocean Blvd, Long Beach

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate: [redacted]	Transportation [redacted]
WEATHERED WOOD	LANDFILL		

Additional Information: PROFILE EXPIRES 3/7/2026
MATERIAL CODE: VS-SW-WEATHERED WOOD | ENVIRONMENTAL RECOVERY FEE (ERF) $18.00/LOAD | FUEL RECOVERY FEE (FRF) VARIES CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Cannot Exceed Daily Volume of 10 TONS Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3. **Term of Agreement.** This Agreement is effective for 12 months beginning on 3/15/2023 (the "Initial Term") and shall automatically renew for successive 12 month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Agent must send to multiple parties under any Applicable Laws, Agent grants to Company the right to bid and/or compete for any future services sought by Agent, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, AGENT IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

AGENT

SIGNATURE (AUTHORIZED REPRESENTATIVE)

JOE EIRAS GENERAL SUPERINTENDENT
NAME AND TITLE (PLEASE PRINT)

DATE: 3/15/2023

COMPANY Edward Antolin

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Edward Antolin MESE
NAME AND TITLE (PLEASE PRINT)

DATE: 03/16/2023

4. **The Agreement**. This agreement of the parties (this "Agreement") for the transportation and disposal of Acceptable Waste shall consist of this Agreement, riders to this Agreement (if any), any Special Waste profile(s) (including any approved changes and re-certifications) which Agent shall ensure has the identical Special Waste profile number as this Agreement (a "Special Waste Profile"), manifests, any other documentation that Agent is required to submit to Company in connection with the transportation and disposal of Acceptable Waste, and any permits and approvals that may be applicable to the transportation and disposal of such Acceptable Waste (collectively, the "Acceptable Waste Documentation").

5. **Waste Accepted at Facility**. Agent represents, warrants and covenants that all of Agent's waste transported to and delivered for disposal at the Facility will be Acceptable Waste and will not contain any "Unacceptable Waste," which for purposes of this Agreement means any: (a) hazardous materials, substances or wastes; radioactive materials or substances; biomedical, infectious, biohazardous toxic waste or substances; or any other pollutant, contaminant, or substance that is hazardous or threatening to human health, safety or the environment, in each as determined by Company or as defined or identified by applicable federal, state, provincial, tribal and local laws, permits, licenses, regulations, rules and orders regarding the same (collectively "Applicable Laws"); or (b) waste that is not acceptable under Applicable Laws for transportation to, storage at, disposal by or processing at the applicable Facility. Agent shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste comply with all Applicable Laws.

6. **Acceptable Waste**. Only waste that satisfies each of the following criteria shall be accepted for transportation to and disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for transportation to and disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such waste to Company, Agent has provided appropriate Acceptable Waste Documentation for such Acceptable Waste and Company has approved disposal of such Acceptable Waste in writing and subject to the limitations and conditions contained in Company's written notice of approval. Company shall acquire title to Acceptable Waste when it is loaded into Company's truck. Title to, and liability for, Waste handled or disposed of by Company shall at all times remain with Generator and Agent.

7. **Rights of Refusal/Rejection**. The Agent shall inspect all Special Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) the Agent has breached (or is breaching) its representations, warranties, covenants or agreements hereunder, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. The Company shall have the right to inspect all vehicles of waste haulers, including the Agent's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Agent of its responsibilities or liability under this Agreement.

8. **Limited License to Enter**. This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Agent agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of alcohol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. **Charges and Payment**. Payment shall be made by Agent within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Agent. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier. Agent hereby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party.

10. **Termination/Suspension**. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Agent's failure to timely pay any amounts due under this Agreement to Company; (b) Agent's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Agent. Agent shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Agent's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Agent.

11. **Personnel Knowledge and Authority**. Agent represents, warrants and covenants that its personnel and agents have been advised by Agent of Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility.

12. **Indemnification**. Each party shall indemnify, defend and hold harmless the other party and its subsidiaries, affiliates and parent corporations, as applicable, and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or in connection with such party's breach of this Agreement or arising out of the negligence or willful misconduct by such party or such party's employees, agents, subcontractors or representatives. Agent further agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all Losses arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Agent or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Agent to promptly remove the Unacceptable Waste at Agent's sole expense. The indemnification and other obligations stated in this Section 11 shall survive the expiration and termination of this Agreement.

13. **Insurance**. Agent shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages		Minimum Amounts of Insurance
Worker's Compensation		Statutory
Employer's Liability		$1,000,000
General Liability		$1,000,000 combined single limit
Automobile Liability	(where Agent hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located.
Agent shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before
Agent delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial
General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Agent's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company

14. **Failure to Perform**. Except for Agent's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any federal, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Agent's access to the Facility immediately, without prior notice; provided, however, that Agent's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15. **Assignment; Performance of Services**. Agent may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16. **Right of Disposal**. This Agreement does not grant any rights to dispose of waste or impose any obligations on Company to transport or dispose of waste, other than as specifically set forth in this Agreement.

17. **Continuing Compliance**. Agent has a continuing obligation to inform Company of any new information, or information not previously provided to Company by Agent, which may affect the acceptability of the waste by Company. Further, Agent shall comply with all Company requests for evidence of Agent's continuing compliance with the terms of this Agreement and any Acceptable Waste Documentation including without limitation to the following: (a) providing new, updated Special Waste Profiles on the waste offered for transportation and disposal; (b) providing appropriate certification that the waste being offered for transportation and disposal is accurately reflected by the appropriate Special Waste Profile and (c) re-sampling the waste at Agent's sole expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Agent which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Agent represents, warrants and covenants that it is and during the term of this Agreement, will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the parties that Agent is an authorized representative of Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

19. **Notices.** Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Agent at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing..

20. **Liquidated Damages.** If Agent terminates this Agreement before its expiration other than as a result of a breach by Company, Agent shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Agent acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

AGENT: _____ 3/15/23 COMPANY: _____

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123233990	3/20/2024	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: City of Redondo Beach

Generator Site Address: 239 N Harbor Drive

City: Redondo Beach **County:** **State:** CA **Zip:**

Name of Waste: Weathered Wood

Estimated Annual Volume: 220 Tons

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5 and 25230.

Per the Special Waste Profile Change Form dated 25 May 2023, the generator has increased the ESTIMATED VOLUME for disposal by 40 TONS.

TOTAL ESTIMATED VOLUME approved for disposal is 220 TONS.

Special Waste Analyst Signature: Joseph Sorokach **Name (Printed):** Joseph Sorokach

Date: 5/25/2023

III. Facility Decision: ☑ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 5/25/2023

Special Waste Profile - Change

REPUBLIC SERVICES

I. Generator Information

This form may be used to request changes to an existing Special Waste Profile

Generator Name: City of Redondo Beach

Name of Waste: Weathered Wood Waste Profile #: 5123 23 3990

II. Purpose of Change

Description of change requested and reason for change
(provide detailed explanation of why the change is requested following the appropriate checked circle below).

Necessary volume increase due to additional work that continues to produce treated/ weathered wood

☑ Volume Increase By: 40 Tons

Is the analysis originally submitted with the Profile representative of the volume increase? ☐ Yes ☑ No ***If no, complete Section III below***

☐ Extend Expiration Date:

☐ Change or Add Landfill:

☐ Add Additional Laboratory Reports: ***Complete Representative Sample Certification; Section III below***

☐ Add MSDS:

☐ Generator Name Change:

☐ Other:

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers:

Special Waste Profile - Change

REPUBLIC SERVICES

IV. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile – Change form ("Change Form"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of all changes to the Waste since its last approved Profile and all known or suspected hazards have been disclosed. All Analytical Results/Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Change Form or Certification being inaccurate or untrue. I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Change Form may be accepted with the same authority as the original.

Chris King	HARBOR/PIER MANAGER	CITY OF REDONDO BEACH
Authorized Representative Name (Printed)	Title (Printed)	Company Name

Representative Signature

5/25/23
Date

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123233990	3/20/2024	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: City of Redondo Beach

Generator Site Address: 239 N Harbor Drive

City: Redondo Beach **County:** **State:** CA **Zip:**

Name of Waste: Weathered Wood

Estimated Annual Volume: 180 Tons

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5 and 25230.

Special Waste Analyst Signature: Joseph Sorokach **Name (Printed):** Joseph Sorokach

Date: 3/22/2023

III. Facility Decision: ☑ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 3/22/2023

Express Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123 23 3990

Sales Rep #: Ed Antolin

I. Generator Information

Generator Name: City of Redondo Beach

Generator Site Address: 239 N. Harbor Drive

City: Redondo Beach County: Los Angeles State: CA Zip: 90277

State ID/Reg No: N/A State Approval/Waste Code: N/A NAICS:

Generator Mailing Address: 415 Diamond St.

City: Redondo Beach County: Los Angeles State: CA Zip: 90277

Generator Contact Name: Geraldine Trivedi Email: Geraldine.Trivedi@redondo.org

Phone Number: 310-569-4141 Ext: Fax Number:

II. Billing Information

Bill To: Jilk Heavy Construction, Inc. Contact Name: Nol Arcebal

Billing Address: 500 S. Kraemer Blvd Suite 380 Email: ap@jilkhc.com

City: Brea State: CA Zip: 92821 Phone: 310-830-6323

III. Waste Stream Information

Name of Waste:

- [x] **Weathered Wood**
- [ ] **RCRA Empty Containers**
- [ ] **Treated Medical Waste**
- [ ] **Animal Carcass (non-infectious)**
- [ ] **Friable Asbestos**
- [ ] **Nonfriable Asbestos**
- [ ] **Tires**
- [ ] **Meth Contaminated Debris**

Has a sample of this waste been taken? [ ] **Yes** [x] **No**

Process Generating Waste: Treated wood waste is removed from the demolished pier and placed into 40 yard containers for shipment.

Method of Shipment: Bulk Complete if "other":

Frequency: One Time

Estimated Annual Volume: 180 Volume Type: Tons

Color: Brown () Odor: none

5398437a-7166-4de4-af93-c2a9061171d6

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Geraldine Trivedi	Civil Engineer	City of Redondo Beach
Authorized Representative Name (Printed)	Title (Printed)	Company Name
Geraldine Trivedi	Mar 20, 2023	
Authorized Representative Signature	Date	

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PROPOSAL

3/13/2023

Annie Incontro
JILK HEAVY CONSTRUCTION
239 N Harbor Dr
Redondo Beach, CA90277
Quote: A239595275

JILK HEAVY CONSTRUCTION:
Below is our proposal of recommended services, customized for your business needs identified during our discussions. If you ever need additional services, or just need an extra pickup, please give us a call at 800-299-4898. It's that easy.

Service Details

LARGE CONTAINERS

Equipment Qty/Type/Size:	2 - Open Top - 40.00Yd(s)	Haul Rate:	[redacted]	per haul
Frequency:	On-Call	Disposal Rate:	[redacted]	per ton
Material Type:	Special Waste			
Hauls/ month:	2.0			

Estimated Monthly Amount *

Large Container Haul Charge	[redacted]
Large Container Disposal Charge (2 tons)	[redacted]
Total Fuel/ Environmental Recovery Fees**	[redacted]
Total Estimated Amount	[redacted]

One Time Charges

Delivery Charge Subtotal	[redacted]
Valued Customer Discount - Delivery	-[redacted]0
Total Fuel/ Environmental Recovery Fees**	$[redacted]
Total One-Time Amount	[redacted]

Gina Varela-Velasquez
Republic Services

gvarela@republicservices.com
www.republicservices.com

** The Total Estimated Amount is merely an estimate of your typical monthly invoice amount without one-time start-up charges (e.g., delivery). It does not include any applicable taxes or local fees, which would be additional charges on your invoice.*

***FRF, RPC, ERF and ADMIN: The Fuel Recovery Fee (FRF) and the Recycling Processing Charge (RPC) are variable charges that change monthly. For more information on the FRF, RPC, Environmental Recovery Fee (ERF) and Administrative Fee, please visit www.republicservices.com/customer-support/fee-disclosures. The proposed rates above are valid for 30 days. This proposal is not a contract or agreement or an offer to enter into a contract or agreement. The purpose of this proposal is to set forth the proposed framework of service offerings and rates and fees for those offerings. Any transaction based upon this proposal is subject to and conditioned upon the execution by both parties of Republic Services' Customer Service Agreement.*

INVOICE TO	
CUSTOMER NAME	JILK HEAVY CONSTRUCTION
ATTN	Annie Incontro
ADDRESS	500 S. Kraemer Blvd
	STE 380
CITY	Brea, CA
STATE	
ZIP CODE	92821
TEL. NO.	(310) 345-2334 FAX NO.

SITE LOCATION		
SITE NAME	JILK HEAVY CONSTRUCTION	
ADDRESS	239 N Harbor Dr	
CITY	Redondo Beach, CA	
STATE		
SUITE		
ZIP CODE	90277	
TEL. NO.	(310) 345-2334	FAX NO.
AUTHORIZED BY	Annie Incontro	TITLE
CONTACT	Annie Incontro	TITLE

REPUBLIC SERVICES

Temporary Service Agreement

AGREEMENT NUMBER	A239595275
ACCOUNT NUMBER	902

EMAIL : annieincontro@jilkhc.com

N/O	CONT. GRP	TYPE	SIZE	C	QTY	ACCT. TYPE	C/O	SERV. FREQUENCY	EST. LIFTS	S	P.O. REQ	RECPT. REQ	L/F CODE	OPEN/ CLOSE DATE	LIFT CHARGE	MONTHLY SERVICE	EXTRA LIFT	DISP RATE	ADDITIONAL CHARGES	SUPPLEMENTAL CHARGES		TC/RC CMP
N		RO	40.00Yd(s)	N	2	T	N	O/C	1.0	X		N	SSSW	3/20/2023	[redacted]			[redacted] r ton		Delivery	$209.50	
																				Dry Run	$201.00	
																				Relocate	$219.50	
																				Removal	$181.50	
																				Washout	$173.30	

Consolidated Disposal Service, L.L.C. DBA Allied Waste Services, Republic Services, Republic Services of Southern California

HEREINAFTER REFERRED TO AS THE "COMPANY"

The undersigned individual signing this Agreement on behalf of the Customer acknowledges that he or she has read and understands the terms and conditions of this Agreement and that he or she has the authority to sign the Agreement on behalf of the Customer.

BY: _____

(AUTHORIZED SIGNATURE)

TITLE: _____

BY :

(AUTHORIZED SIGNATURE)

TITLE:

CUSTOMER NAME (PLEASE PRINT)

DATE OF AGREEMENT

COMMENTS:

Fuel Recovery Fee - Yes, Environmental Recovery Fee - Yes, Administrative Fee - No

Valued Customer Discount - Delivery for 2 containers RO 40.00 yard - $103.00

Delivery Notes:

Safety: No Safety Concerns

WASTE CONTAINER 40 CU YD - Annie (310)345-2334 Place in parking lot

Service Notes:

See reverse for Terms and Conditions

WASTE CONTAINER 40 CU YD - Special Waste(Treated Wood)- Direct to Landfill - Profile Loads
Minimum Lift $350.00

Exempt from: Administrative Fee

TERMS AND CONDITIONS

1. AGREEMENT. This Customer Service Agreement consists of the service details above, including the Comments ("Service Details"), and these Terms and Conditions (together, the "Agreement"). If Customer's Site is located within a franchised service area and the Terms and Conditions in this Agreement conflict with the applicable franchise agreement with respect to the Services covered by such franchise agreement, the terms and conditions in the franchise agreement shall control.

2. **RESPONSIBLE PARTY.** "Company" is the entity identified in the Service Details. Company is an individual operating subsidiary of Republic Services, Inc. Republic Services, Inc. itself does not perform the waste services and does not contract with customers. Accordingly, all obligations to you rest solely with Company and not with its parent company. All Services hereunder will be managed, performed, and billed for by Company, except to the extent Company may subcontract certain Services to its affiliates or subcontractors, as needed.

3. TERM (SCHEDULED AND ON-CALL SERVICES). FOR ALL SCHEDULED AND ON-CALL SERVICES, THE INITIAL TERM OF THIS AGREEMENT SHALL BEGIN ON THE DATE WHEN SERVICE COMMENCES AND CONTINUE FOR MONTH TO MONTH. UNLESS OTHERWISE SPECIFIED, THIS AGREEMENT SHALL AUTOMATICALLY AND SUCCESSIVELY RENEW FOR MONTH TO MONTH UNLESS EITHER PARTY GIVES WRITTEN NOTICE OF TERMINATION TO THE OTHER AT LEAST 60 DAYS, BUT NOT MORE THAN 180 DAYS, BEFORE THE END OF THE THEN-CURRENT TERM.

4. TERM (TEMPORARY SERVICES). FOR ALL TEMPORARY SERVICES, THE TERM SHALL BEGIN ON THE EFFECTIVE DATE AND CONTINUE THROUGH THE FINAL LIFT OF THE TEMPORARY CONTAINER(S).

5. DEFINITIONS. "Waste" means any waste material that fully conforms to the description of such Waste in this Agreement and its approved waste profile, manifest or other waste documentation. "Non-Conforming Waste" means any waste material not expressly included within the scope of this Agreement, waste material that does not conform to its waste documentation, waste material that is not acceptable at the intended disposal or recycling facility, and/or Waste placed in a container intended for a different type of Waste (such as solid waste in a container for Recyclables). "Recyclables" means material that Company determines can be recycled such as aluminum, used beverage containers, cardboard (free of wax), ferrous metal cans, mixed office paper, newspaper, and plastic containers.

6. SCOPE OF SERVICES; TITLE; NON-CONFORMING WASTE. Customer grants to Company the exclusive right to perform the services set forth in the Service Details ("Services"), and Company agrees to furnish such Services in compliance with all applicable international, federal, state, or local laws or regulations ("Applicable Law"). Customer represents and warrants that all material to be collected under this Agreement shall be only acceptable Waste. Customer agrees not to deposit, or permit the deposit for collection of, any Non-Conforming Waste. Title to and liability for any Non-Conforming Waste shall remain with Customer and shall at no time pass to Company regardless of whether physical possession of Non-Conforming Waste has passed to Company. Company shall acquire title to conforming Waste when collected or received by Company. If Company determines that any Waste is Non-Conforming Waste, it will have the right to reject, revoke acceptance of, or determine alternative disposal for, such Non-Conforming Waste and convey it to Customer or another location. In such event Customer will pay Contractor's reasonable costs for the handling, analysis, transportation, repackaging, and time involved in returning such Non-Conforming Waste to Customer or other location or arranging for alternative disposal.

7. PAYMENT AND CHARGES. Customer shall pay Company all rates, fees, taxes, and other amounts payable under this Agreement for the Services ("Charges") within 20 days after the date of Company's invoice. Any invoiced amounts not received by their due date are subject to a late payment fee, and any payment returned for insufficient funds is subject to an insufficient funds fee, both in an amount at Company's discretion up to the maximum amount allowed by Applicable Law. Customer acknowledges that any late or insufficient funds fees charged by Company are not to be considered a penalty or interest but are a reasonable charge for late or insufficient payments. Unless otherwise agreed, Customer shall pay administrative fees ("ADMIN"), fuel recovery fees ("FRF") environmental recovery fees ("ERF") and a recycling processing charge ("RPC") in the amounts shown on each of Company's invoices, which fees Company may change from time to time by showing the amount on Customer's invoice (additional information regarding these fees is available on Company's website at: www.republicservices.com/customer-support/fee-disclosures). ADMIN, FRF, ERF and RPC are not associated with any explicit cost to service Customer's account but are designed to help Company recover certain costs across its business and achieve an acceptable operating margin. If applicable, Company may impose additional Charges at its prevailing rates for extra service, extra yards, minimum lift, contamination, service attempts and container delivery, relocation, removal and exchange, and other additional services not listed in the Service Details. If Company becomes concerned about Customer's creditworthiness and/or Customer makes any late payment, Company may require Customer to pay a deposit in an amount equal to two months' Charges under this Agreement if allowed by Applicable Law. The rates set forth in the Service Details do not include taxes or franchise and/or local fees, which shall be separately itemized on Customer's invoice where applicable.

8. ADJUSTMENTS TO CHARGES. Notwithstanding any information contained in the Service Details, Company may, from time to time by notice to Customer (on its invoice), add a surcharge, fee or increase any Charges provided in this Agreement to account for: (a) increased Company costs due to uncontrollable events including, but not limited to, changes in Applicable Laws, imposition of taxes, fees or surcharges, or acts of God such as fires, weather, disease, strikes or terrorism; (b) increased Company costs as measured by the most recently trailing 12-months' average in the Consumer Price Index for All Urban Consumers (Waster, Sewer and Trash Collection Services) U.S. City Average, as published by the United States Department of Labor, Bureau of Statistics; (c) increased disposal or processing costs; (d) increased transportation costs; (e) increased fuel costs; (f) costs or fees due to the inclusion of Non-Conforming Waste and/or contamination; (g) decreased value of Recyclables or changes in commodity markets; or (h) actual Services or equipment that differ from those listed in the Service Details (all of the foregoing are "Required Adjustments"). Subject to any Comments in the Service Details, Company may also increase Charges at any time and for any other reason by notice to Customer (on its invoice) and with Customer's consent ("Agreed Adjustments"), which consent may be evidenced verbally, in writing, or by the parties' actions and practices. Unless specified otherwise in Company's notice, all adjustments to charges shall be treated as Agreed Adjustments. Within 30 days of receiving notice of an Agreed Adjustment, Customer may object to the adjustment by calling Customer Service. If Customer does not object to an Agreed Adjustment within 30 days and continues to receive and pay for Services, then Customer shall be deemed to have consented to the Agreed Adjustment by its actions.

9. SERVICE CHANGES. The parties may change the type, size or amount of equipment, the type or frequency of Service, and correspondingly the Charges by mutual agreement, which may be evidenced verbally, in writing, by payment of the invoice, or by the parties' actions and practices. In the event there are changes to Services and/or Charges, or Customer changes its Site Location within the area in which Company provides collection and disposal (or processing) services, the parties agree that this Agreement shall continue in full force and effect as so adjusted.

10. RESPONSIBILITY FOR EQUIPMENT; ACCESS. Any equipment furnished by Company shall remain Company's property. Customer shall be liable for all loss or damage to such equipment (except for normal wear and tear and for loss or damage resulting from Company's handling of the equipment). Customer shall use the equipment only for its proper and intended purpose, shall not overload (by weight or volume), move, or alter the equipment, and shall not allow the equipment to be used for any purpose by any person or entity other than Customer's employees without Company's prior written consent. If a Company container is moved from Customer's Site Location by anyone other than Company, Customer agrees to pay Company $250 per moved container, which amount is a reasonable estimate of the damage Company will incur from the unauthorized moving of its container. After the Initial Term, Company may increase the fee for the unauthorized moving of its container at its discretion. Customer shall provide safe, unobstructed access to the equipment on the scheduled collection day. Company may charge an additional fee for any additional collection service required by Customer's failure to provide access. Company shall not be responsible for any damages to Customer's pavement, curbing, or other driving surfaces resulting from Company providing service at Customer's Site.

11. COMPANY INDEMNIFICATION. COMPANY SHALL INDEMNIFY, DEFEND, AND HOLD HARMLESS CUSTOMER FROM AND AGAINST ANY AND ALL CLAIMS, DAMAGES, SUITS, PENALTIES, FINES, REMEDIATION COSTS, AND LIABILITIES (INCLUDING COURT COSTS AND REASONABLE ATTORNEYS' FEES) (COLLECTIVELY, "LOSSES") TO THE EXTENT ARISING FROM COMPANY'S NEGLIGENCE, WILLFUL MISCONDUCT OR BREACH OF THIS AGREEMENT.

12. CUSTOMER INDEMNIFICATION. CUSTOMER SHALL INDEMNIFY, DEFEND, AND HOLD HARMLESS TO THE FULLEST EXTENT PERMITTED BY LAW COMPANY, ITS PARENT, AND CORPORATE AFFILIATES FROM AND AGAINST ANY AND ALL LOSSES TO THE EXTENT ARISING FROM CUSTOMER'S NEGLIGENCE, WILLFUL MISCONDUCT, PROVISION OF NON-CONFORMING WASTE, AND CUSTOMER'S USE, OPERATION, OR POSSESSION OF COMPANY'S EQUIPMENT. THE OBLIGATIONS SET FORTH IN SECTIONS 11 AND 12 SHALL SURVIVE THE EXPIRATION AND/OR TERMINATION OF THIS AGREEMENT.

13. SUSPENSION; TERMINATION. If any amount due from Customer is not paid within 60 days after the date of Company's invoice, Company may, without notice and without terminating this Agreement, suspend collecting and disposing of Waste until Customer has paid such amount to Company. If Company suspends service, Customer shall pay Company a service interruption fee in an amount determined by Company in its discretion up to the maximum amount allowed by Applicable Law. Either party may terminate this Agreement upon 30 days prior written notice to the other party if the other party breaches a material obligation of the Agreement (including non-payment) and fails to cure such breach within 10 days after receiving written notice of the breach. Company may terminate this Agreement for its convenience upon 30 days prior written notice to Customer.

14. LIQUIDATED DAMAGES. If Customer terminates this Agreement before its expiration for any reason other than Company's breach (or if Company terminates this Agreement due to Customer's non-payment), Customer shall pay Company an amount equal to the average Charges from Customer's last 6 invoices multiplied by the lesser of (a) six months or (b) the number of months remaining in the Term. Customer

acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

15. RIGHT OF FIRST REFUSAL. Customer agrees to notify Company in writing of any offer that Customer receives from any third party relating to the provision of the Services during any term of this Agreement ("Offer") and agrees to give Company the right of first refusal and reasonable opportunity to match such Offer prior to acceptance.

16. COMMUNICATIONS. To ensure timely and accurate receipt of communications, all communications to Company regarding this Agreement and/or the Services must come directly from Customer. Customer acknowledges that Company will not accept any communications from any third parties acting as the Customer's agent or representative (absent proof of medical necessity as reasonably determined by Company). All notices to Company pertaining to this Agreement shall be sent via email to contractnotice@republicservices.com. If (and only if) Customer does not have access to email, written notice shall be provided via certified mail to: Republic Services, Attn: Customer Contracts,18500 N. Allied Way, Phoenix, AZ 85054. Any notices received from Customer will be deemed effective no less than 60 days from the date received by Company.

17. DISPUTE RESOLUTION-ARBITRATION; CLASS ACTION WAIVER. (a) Except for Excluded Claims (defined below), Customer and Company agree that any and all existing or future controversy or claim between them arising out of or related to this Agreement, whether based in contract, law or equity or alleging any other legal theory, or arising prior to, in connection with, or after the termination of this Agreement, shall be settled by arbitration administered by the American Arbitration Association in accordance with its Commercial Arbitration Rules with a single arbitrator, and judgment on the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. (b) Customer and Company agree that under no circumstances, whether in arbitration or otherwise, may Customer bring any claim against Company, or allow any claim that Customer may have against Company to be asserted, as part of a class action, on a consolidated or representative basis or otherwise aggregated with claims brought by, or on behalf of, any other entity or person, including other customers of Company or its parent or corporate affiliates. (c) The following claims constitute "Excluded Claims" and are not subject to mandatory binding arbitration: (i) either party's claims against the other in connection with bodily injury or real property damage; (ii) claims for indemnity pursuant to the Indemnification Section of this Agreement; and (iii) Company's claims against Customer for collection or payment of Charges, damages (liquidated or otherwise), or any other amounts due or payable to Company by Customer under this Agreement.

18. MISCELLANEOUS. (a) This Agreement shall be governed by and construed in accordance with the internal laws of the State where the Services are provided, without giving effect to any conflict of law provision. (b) This Agreement represents the entire agreement between the parties and supersedes all prior agreements, whether written or verbal, that may exist between the parties for the same Services. (c) Except for Customer's obligation to pay amounts due to Company, any failure or delay in performance due to contingencies beyond a party's reasonable control, including strikes, riots, terrorist acts, compliance with Applicable Laws or governmental orders, fires and acts of God, shall not constitute a breach of this Agreement. (d) Company shall have no confidentiality obligation with respect to any Waste or Recyclables. (e) Company may assign this Agreement without Customer's consent. This Agreement shall be binding upon and inure solely to the benefit of the parties and their permitted successors and assigns. (f) If any provision of this Agreement is declared invalid or unenforceable, it shall be modified so as to be valid and enforceable but so as most nearly to retain the intent of the Parties. If such modification is not possible, such provision shall be severed from this Agreement. In either case, the validity and enforceability of the remaining provisions of this Agreement shall not in any way be affected thereby. (g) Failure or delay by either party to enforce any provision of this Agreement will not be deemed a waiver of future enforcement of that or any other provision. (h) If any litigation or arbitration is commenced under this Agreement, the successful party shall be entitled to recover, in addition to such other relief as the court may award, its reasonable attorneys' fees, expert witness fees, litigation and arbitration related expenses, and court or other costs incurred in such litigation, arbitration or proceeding. (i) Customer and Company agree that electronic signatures are valid and effective, and that an electronically stored copy of this Agreement constitutes proof of the signature and contents of this Agreement, as though it were an original.

The following Terms and Conditions apply to Customer only if Customer is receiving the applicable Service from Company.

19. CONTAINER REFRESH. If the Services include Container Refresh, Customer is limited to one (1) exchange of each participating container every 12 months of paid enrollment; any additional exchange is subject to Company's standard container exchange fee. Customer agrees that during any enrollment year in which Customer receives an exchange under the program, any request by Customer to cancel Container Refresh will not be effective until Customer completes payment for 12 consecutive months of enrollment in the program. The Charge for Container Refresh will be itemized on Customer's invoice, which Charge may be changed by Company by showing the amount of the new Charge on Customer's invoice. Company reserves the right to suspend or cancel the Container Refresh program at any time.

20. RECYCLABLES. If the Services include recycling, Customer shall comply with all Applicable Laws regarding the separation of solid waste from Recyclables and not place items in any recycling container that may make the Recyclables unsuitable for recycling or decrease the value of the Recyclables. Customer agrees that Company in its sole discretion may determine whether any load of Recyclables is contaminated and may refuse to collect it or may collect it but charge Customer for any additional costs, fees or surcharges associated with sorting, processing, contamination, transportation, and/or disposal.

21. ROLL-OFF. Republic may charge rent or a minimum lift charge if a roll-off container is not lifted or hauled at least once per month. The following additional terms shall apply to any roll-off service: (a) Company will not accept: white goods, tires, drums, paint, solvents, chemicals, or other such materials that would be considered flammable or explosive, or other materials not permitted to be disposed of at the designated disposal facility. (b) If the roll-off is loaded with extremely heavy material, such as block concrete, asphalt, dirt or roofing material, such material must be evenly distributed at the bottom of the roll-off, shall not exceed 3 feet in depth and shall not exceed 10 tons in weight. (c) Customer shall not load materials above the top of the roll-off. (d) Customer shall close and latch the back door of the roll-off before service. The driver cannot load a roll-off with an open or unlatched back door. (e) If Company is unable to safely haul a roll-off, Customer shall off-load the impermissible overage or type of materials or otherwise improve any conditions necessary to enable safe hauling. Customer will be charged a dry run fee for each attempted trip where hauling does not occur. (f) If Company hauls an overloaded roll-off, Customer shall be responsible for all service charges based on the actual tonnage hauled, plus any tickets, fines, penalties, or damages incurred by Republic due to the overweight container.

22. EQUIPMENT RENTAL. Rented equipment shall remain at Customer's Site, except when handled by Company. Customer shall not make any changes, alterations, additions, or improvements in or to the equipment or move or relocate the equipment without Company's prior written consent. Customer shall allow Company and/or its designee to enter the Site to examine or inspect the equipment, perform preventative maintenance and repairs, or for any other purpose permitted by this Agreement. Company has the right, at any time and at its sole discretion, to substitute the equipment for similar equipment of make and size, or of a make and size that provides for more efficient or economical service.

MAINTENANCE. Company shall maintain the equipment in good operating condition and make repairs necessitated only by normal wear and tear. Customer shall be responsible for repairs, replacement parts, and labor necessitated by abuse or negligent operation or care of the equipment. Once installed, Customer shall have the care, custody, and control of the equipment. Customer assumes all risks of loss, damage, destruction or interference with the use of, and accepts responsibility for, the equipment and the supervision and operation of the equipment, accessories and contents during the term of this Agreement. Company will not be responsible for installation of utility service necessary to operate the equipment or any utility service charges attributable to the equipment's operation. If electrical or any other installment requirements are not satisfied prior to delivery of the equipment, Company may charge Customer all costs incurred by Company for its inability to complete the installation of the equipment. Customer shall be responsible for (a) connecting the equipment to the electrical service and any other utility services in conformance with all applicable building and zoning codes and regulations, (b) providing the necessary electrical power to operate the equipment, and (c) all costs of electrical wiring, and/or other utility hook-up and inspection thereof necessary for use of the equipment.

CUSTOMER'S OBLIGATIONS. Customer shall operate the equipment solely for its intended purpose and in strict conformance with this Agreement and the manufacturers and Company's instructions. Customer shall comply with all reporting and operating requirements related to the operation, maintenance, and management of the equipment as required by Company or as otherwise mandated by Applicable Law. Any Site-related licenses and permits concerning the equipment shall be obtained and maintained by Customer at Customer's sole cost and expense. Customer shall take all action necessary to ensure that the equipment is not abused, misused, or otherwise harmed by Customer or its employees, agents, and representatives or any other persons. Customer shall immediately notify Company of any damage to the equipment, or any injuries relating to the use or operation of the equipment. Customer shall keep the equipment free from any and all liens and claims and shall not do or permit any act whereby Company's title or rights might be encumbered or impaired. **If this Agreement is terminated early for any reason, in addition to the Liquidated Damages, Customer shall also reimburse Company for any fabrication, configuration, installation and de-installation costs, including, but not limited to, labor costs, incurred in placing and removing the equipment from Customer's Site.**

DISCLAIMER OF WARRANTIES; DAMAGES. COMPANY MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, AS TO ANY MATTER WHATSOEVER, INCLUDING, WITHOUT LIMITATION, THE CONDITION OF THE EQUIPMENT, ITS MERCHANTABILITY OR ITS FITNESS FOR ANY PARTICULAR PURPOSE, AND COMPANY HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES THEREFOR. COMPANY EXPRESSLY DISCLAIMS ALL INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR EXEMPLARY DAMAGES ARISING IN CONNECTION WITH THIS AGREEMENT OR THE EQUIPMENT, INCLUDING, WITHOUT LIMITATION, LOST SALES AND PROFITS AND OTHER BUSINESS INTERRUPTION DAMAGES, EVEN IF COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES AND WITHOUT REGARD TO THE NATURE OF THE CLAIM OR THE UNDERLYING THEORY OR CAUSE OF ACTION (WHETHER IN CONTRACT, TORT, OR OTHERWISE), AND CUSTOMER HEREBY EXPRESSLY WAIVES AND RELEASES COMPANY FROM AND AGAINST ANY SUCH DAMAGES.

23. ELECTRONIC MATERIAL AND/OR BULB & BATTERY RECYCLING SERVICES. Electronic Material Services and/or Bulb & Battery Recycling Services are provided only within the continental United States (not available in Alaska or Hawaii). Company or its subcontractor shall collect, transport, or receive via mail, treat, recycle, and/or dispose of Electronic Material and/or Bulbs & Batteries as provided in the Service Details. Customer acknowledges and understands that due to a variety of factors, including without limitation market conditions and processing costs, some or all of the Electronic Material and Bulbs & Batteries may be disposed of in a disposal facility and not recycled. Weights and/or unit counts of all Electronic Material and Bulbs & Batteries shall be determined upon receipt by Company or its subcontractor. All references to "Company" in this section of the Agreement shall also include Company's subcontractor(s).

ADDITIONAL DEFINITIONS. The following additional definitions apply to the recycling of Electronic Material and Bulbs & Batteries only:

"Bulbs & Batteries" means those materials included in the Environmental Protection Agency's Universal Waste regulations set forth in 40 C.F.R. 273, including bulbs, batteries, TSCA-exempt ballasts and non-PCB ballasts, lamps, and other mercury-containing items and materials.

"Electronic Material" consists of any video display devices (CRT or flat panel), computers, servers, laptops, tablets, cell phones, and other electronics that are not excluded by these provisions relating to Electronic Material Services. Electronic Material does not include any solid waste, non-electronic Recyclable Material or Excluded Waste.

"Excluded Waste" means any material other than Electronic Material or Bulbs & Batteries. Electronic Material and Bulbs & Batteries may not be commingled. If Electronic Material is commingled with Bulbs & Batteries for a Bulb & Battery Recycling Service, the Electronic Material will be treated as Excluded Waste, and vice versa.

BOX MAIL-BACK SERVICES (Electronic Material and Bulbs & Batteries). In connection with Box Mail-Back Services, the following additional terms shall apply:

Pre-Payment; No Refunds. Payment for Box Mail-Back Services is made in advance and will not be refunded for any reason after a box has been shipped to Customer. If Customer returns an unused box, Customer will be responsible for its shipping cost plus a restocking fee.

Expiration of Boxes. Each box must be received by Company or its subcontractor within 1 year from the date of order (the "Expiration Date"). With respect to Electronic Material, the Expiration Date can be extended an additional year for a fee of 50% of the original box price. Company has no obligation after the Expiration Date to process materials sent in for recycling and may return such materials to Customer at Customer's expense.

Safe Packaging Obligation. Customer is responsible for complying with all packaging (including safely packaging contents), sealing, and shipping instructions included with each box.

Electronic Material Specifications. With respect to Electronic Material Box Mail-Back Services, Company reserves the right to bill additional amounts for any of the following: (i) any box exceeding its specified maximum weight; (ii) shipping materials in the wrong box or mixing materials in a box; (iii) shipping materials that require additional labor for unpacking or disassembly; (iv) processing electronics containing wood; (v) additional shipping charges beyond the amounts prepaid for any prepaid label; and/or (vi) return shipping charges for any Excluded Waste or boxes received with expired labels.

Bulbs & Batteries Specifications. With respect to Bulb & Battery Recycling Box Mail-Back Services, Company reserves the right to bill additional amounts for any of the following: (i) any box exceeding its specified maximum weight; (ii) shipping materials in the wrong box or mixing materials in a box; (iii) shipping materials that require additional labor for unpacking or disassembly; (iv) additional shipping charges beyond the amounts prepaid for any prepaid label; and/or (v) return shipping charges for any Excluded Waste or boxes with expired labels received by Company.

PACK-UP & PICK UP SERVICES (Electronic Material and Bulbs & Batteries). In connection with Pack Up & Pick Up Services, the following additional terms shall apply:

Safe Packaging Obligation. Customer is responsible for complying with all safety, packaging, sealing, and loading/palletizing instructions (including removing materials from their original packaging and/or not individually wrapping all materials) included with each order and shall ensure such is completed prior to the scheduled pickup date.

Electronic Material Specifications. With respect to Electronic Material Pack-Up and Pick-Up Services, Customer shall ensure that Electronic Material is sorted into the following categories: (1) video display devices (CRT); (2) video display devices (flat panel); (3) computers; (4) laptops, tablets, cell phones; and (5) all other Electronic Material. A full list of items that fall into each of these categories is available upon request. If the Electronic Material is not properly sorted, is not removed from its original packaging, and/or is not properly loaded and palletized, additional fees will apply.

FULL SERVICE (Electronic Material). There is a minimum charge for Full Service. For loads of Electronic Material up to 466 pounds, the minimum charge for Full Service will be $660. For loads of Electronic Material over 466 pounds, the charge for Full Service will the weight of the load multiplied by the per pound charge quoted in the Service Details.

CUSTOMER'S INITIAL: _____ DATE: {{t:t;r:y;o:"Customer";l:"Date";}}

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123235144	4/13/2024	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: National Recovery

Generator Site Address: 1651 Glenn Curitss

City: Carson **County:** **State:** CA **Zip:**

Name of Waste: Consumer Size Packaged Candy

Estimated Annual Volume: 15 Tons

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

FOOD WASTE: This waste must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: Joseph Sorokach **Name (Printed):** Joseph Sorokach

Date: 4/14/2023

III. Facility Decision: ✓ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 4/14/2023

DocuSign Envelope ID: 8C09068E-4C16-44E9-806A-67A33DF31D28

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123 23 5144

Sales Rep #:

I. Generator Information

Generator Name: National Recovery

Generator Site Address: 1651 Glenn Curtiss

City: Carson County: Los Angeles State: CA Zip: 90746

State ID/Reg No: N/A State Approval/Waste Code: N/A NAICS:

Generator Mailing Address: 2990 Expressway Dr. S.

City: Islandia County: Suffolk State: NY Zip: 11749

Generator Contact Name: Matt Email: matt@nationalrecoveryusa.com

Phone Number: 631-230-6766 Ext: Fax Number:

II. Billing Information

Bill To: National Recovery Contact Name: Matt

Billing Address: 2990 Expressway Dr. S. Email: invoice@nationalrecoveryusa.com

City: Islandia State: NY Zip: 11749 Phone: 855-696-7872

III. Waste Stream Information

Name of Waste: Consumer Packaged Candy

Process Generating Waste: Consumer packaged candy. Retail packages in cardboard boxes on 52 pallets. This shipment was involved in an accident during transit, therefore it needs to be disposed of.

Type of Waste: Industrial Process Physical State: Solid

Method of Shipment: Bulk Estimated Volume: 15 Volume Type: Tons

Frequency: One Time Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ **No Sample Taken** ☐ **Sample Taken** Type of Sample:

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

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Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

	Characteristic Components (must equal 100%):	% By Weight (out of 100% - ranges acceptable):
1.	Hi-Chew Candy	typical/actual: 70%
2.	Cardboard Boxes	typical/actual: 20%
3.	Wood Pallets	typical/actual: 10%

V. Physical Characteristics of Waste cont.

Color: Brown (White)

Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
none	☐ Yes ☑ No	100%	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1.	Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes	☑ No
2.	Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 [reference 40 CFR 261.23(a)(5)]?	☐ Yes	☑ No
3.	Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes	☑ No
4.	Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes	☑ No
5.	Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes	☑ No
6.	Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	☐ Yes	☑ No
7.	Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes	☑ No
8.	Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
9.	Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
10.	Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes	☑ No

Republic Services Waste Handling Questions

1.	Does this waste generate heat or react when contacted with water/moisture?	☐ Yes	☑ No
2.	Does the waste contain sulfur or sulfur by-products?	☐ Yes	☑ No
3.	Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes	☑ No
4.	Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? . If yes, please provide clarification.	☐ Yes	☑ No

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Special Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Matt Taschetti	Logistics Coordinator	National Recovery
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: Matt Taschetti 7E5B2AA974C641A...		Apr 13, 2023
Authorized Representative Signature		Date

74e2b9d0-66fe-41eb-a449-97d5427ad0ed

REPUBLIC SERVICES

SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: 5123 23 5144

INVOICE TO (Generator Billing Information)

GENERATOR NAME (the "Generator")
National Recovery
ATTN:
Matt Taschetti
ADDRESS
2990 Expressway Dr. S.
CITY STATE
Islandia, NY
ZIP CODE
11749
TEL. NO.
855-696-7872
FAX NO.

LANDFILL FACILITY ("Facility")

LEGAL ENTITY NAME
BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL
ADDRESS
14747 SAN FERNANDO RD
CITY STATE
SYLMAR, CA 91342
ZIP CODE
TEL. NO.
818.362.2141
FAX NO.
AUTHORIZED BY:
TITLE
CONTACT
TITLE

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
Food/ damaged packaged candy	LANDFILL	[redacted]	INVOICE AND LATE FEES APPLY	N/A

Additional Information: SITE: 1651 Glenn Curtiss, Carson CA 90746
MATERIAL CODE: XD-SW-FOOD WASTE | PROFILE EXPIRES 04/13/2024| INVOICE AND LATE FEES APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Cannot Exceed Daily Volume of 15/tons Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3. **Term of Agreement.** This Agreement is effective for 12 months beginning on 05/24/2022 (the "Initial Term") and shall automatically renew for successive 12 month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Generator must send to multiple parties under any Applicable Laws, Generator grants to Company the right to bid and/or compete for any future services sought by Generator, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, GENERATOR IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Matt Taschetti Logistics Coordinator
NAME AND TITLE (PLEASE PRINT)

DATE: 4/19/23

COMPANY

SIGNATURE (AUTHORIZED REPRESENTATIVE)

4/19/23
NAME AND TITLE (PLEASE PRINT)

DATE: 4/19/23

4.

5. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

6. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

7. **Acceptable Waste**. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

8. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; and/or (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

9. **Limited License to Enter.** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

10. **Charges and Payment.** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

11. **Termination/Suspension.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation, or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Generator.

12. **Personnel Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

13. **Indemnification.** Generator agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. The indemnification and other obligations stated in this Section 12 shall survive the expiration and termination of this Agreement.

14. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

15. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any federal, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice; provided, however, that Generator's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

16. **Assignment; Performance of Services.** Generator may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

17. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than as specifically set forth in this Agreement.

18. **Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

19. **Miscellaneous.**

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

20. **Notices.** All notices required under this Agreement shall be considered as having been given upon being placed in the mail, certified postage prepaid, addressed to Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

21. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an

GENERATOR: _____ COMPANY: _____

amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement

GENERATOR:_____ COMPANY:_____

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123235247	4/17/2024	

I. Decision Request: ☐ Initial ☐ Recertification ☑ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: Robben Wholesale Distribution

Generator Site Address: 3080 East Washington Blvd

City: Los Angeles **County:** **State:** CA **Zip:**

Name of Waste: Food Yams

Estimated Annual Volume: 4 Tons

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

FOOD WASTE: These YAMS must be buried immediately upon receipt at the landfill.

Per the Special Waste Profile Change Form dated 19 April 2023, the Volume UNIT OF MEASURE has been changed from POUNDS to TONS.

Special Waste Analyst Signature: Joseph Sorokach **Name (Printed):** Joseph Sorokach

Date: 4/19/2023

III. Facility Decision: ☑ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 4/19/2023

Special Waste Profile - Change

I. Generator Information

This form may be used to request changes to an existing Special Waste Profile

Generator Name: robben wholesale distribution

Name of Waste: purple yams Waste Profile #: 5124235347

II. Purpose of Change

Description of change requested and reason for change
(provide detailed explanation of why the change is requested following the appropriate checked circle below).

weight change, original weight incorrect

☑ Volume Increase By: 4 tons

Is the analysis originally submitted with the Profile representative of the volume increase? ☑ Yes ☐ No ***If no, complete Section III below***

☐ Extend Expiration Date:

☐ Change or Add Landfill:

☐ Add Additional Laboratory Reports: ***Complete Representative Sample Certification; Section III below***

☐ Add MSDS:

☐ Generator Name Change:

☐ Other:

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers:

Special Waste Profile - Change

IV. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile – Change form ("Change Form"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of all changes to the Waste since its last approved Profile and all known or suspected hazards have been disclosed. All Analytical Results/Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Change Form or Certification being inaccurate or untrue. I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Change Form may be accepted with the same authority as the original.

Simon Lam	Chief Development Officer	Robben wholesale Distribution
Authorized Representative Name (Printed)	Title (Printed)	Company Name
Simon Lam	04/19/2023	
Representative Signature	Date	

DocuSign Envelope ID: 5A0A80AE-8B08-4401-AC85-9376C67AD44C

Special Waste Profile

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123 23 5247

Sales Rep #: Ed Antolin

I. Generator Information

Generator Name: Robben Wholesale Distribution

Generator Site Address: 3080 east washington blvd

City: los angeles | County: United States | State: CA | Zip: 90023

State ID/Reg No: CA | State Approval/Waste Code: N/A | NAICS:

Generator Mailing Address: 3080 east washington blvd

City: Los Angeles | County: CA | State: CA | Zip: 90023

Generator Contact Name: robben wholesale distribution | Email: simon.lam@robbenwd.com

Phone Number: 917-873-7889 | Ext: | Fax Number:

II. Billing Information

Bill To: Robben wholesale distribution | Contact Name: Simon Lam

Billing Address: 3080 east washington blvd | Email: admin@robbenwd.com

City: Los Angeles | State: CA | Zip: 90023 | Phone: 347-821-7049

III. Waste Stream Information

Name of Waste: food / yams

Process Generating Waste: manufacturing

Type of Waste: Industrial Process | Physical State: Solid

Method of Shipment: Bulk | Estimated Volume: 4 | Volume Type: Pounds

Frequency: One Time | Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ **No Sample Taken** ☐ **Sample Taken** Type of Sample:

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

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DocuSign Envelope ID: 5A0A80AE-8B08-4401-AC85-9376C67AD44C

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

	Characteristic Components (must equal 100%):	% By Weight (out of 100% - ranges acceptable):
1.	purple yam	typical/actual: 100%

V. Physical Characteristics of Waste cont.

Color: Black ()

Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
none	☐ Yes ☑ No	100%	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1.	Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes	☑ No
2.	Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 [reference 40 CFR 261.23(a)(5)]?	☐ Yes	☑ No
3.	Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes	☑ No
4.	Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes	☑ No
5.	Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes	☑ No
6.	Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	☐ Yes	☑ No
7.	Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes	☑ No
8.	Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
9.	Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
10.	Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes	☑ No

Republic Services Waste Handling Questions

1.	Does this waste generate heat or react when contacted with water/moisture?	☐ Yes	☑ No
2.	Does the waste contain sulfur or sulfur by-products?	☐ Yes	☑ No
3.	Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes	☑ No
4.	Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? . If yes, please provide clarification.	☐ Yes	☑ No

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DocuSign Envelope ID: 5A0A80AE-8B08-4401-AC85-9376C67AD44C

Special Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Simon Lam	Chief Development Officer	ROBBEN WHOLESALE DISTRIBUTION
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: Simon Lam 4AB5907A9C73493...		Apr 17, 2023
Authorized Representative Signature		Date

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REPUBLIC SERVICES

SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: 5123235247

INVOICE TO (Generator Billing Information)	
GENERATOR NAME (the "Generator")	
Robben wholesale distribution (CASH/CREDIT CARD)	
ATTN:	
Simon Lam	
ADDRESS	
3080 E. Washington Blvd.	
CITY STATE	ZIP CODE
LOS ANGELES CA	90023
TEL. NO.	FAX NO.
917-873-7889	

LANDFILL FACILITY ("Facility")	
LEGAL ENTITY NAME	
BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL	
ADDRESS	
14747 SAN FERNANDO RD	
CITY STATE	ZIP CODE
SYLMAR, CA 91342	
TEL. NO.	FAX NO.
818.362.2141	
AUTHORIZED BY:	TITLE
CONTACT	TITLE

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
FOOD WASTE/VEGETABLES Yams	LANDFILL	$ [redacted]	FRF AND ERF APPLY	N/A

Additional Information: SITE: SAME AS BILL TO
MATERIAL CODE: XD-SW-FOOD WASTE | PROFILE EXPIRES 04/17/2024 | ENVIRONMENTAL RECOVERY FEE (ERF) $18.00/LOAD | FUEL RECOVERY FEE (FRF) VARIES CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Cannot Exceed Daily Volume of 4/tons Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3. **Term of Agreement. .** This Agreement is effective for 12 months beginning on 06/06/2022 (the "Initial Term") and shall automatically renew for successive 12 month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Generator must send to multiple parties under any Applicable Laws, Generator grants to Company the right to bid and/or compete for any future services sought by Generator, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, GENERATOR IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR
SIMON LAM

SIGNATURE (AUTHORIZED REPRESENTATIVE)
SIMON LAM

NAME AND TITLE (PLEASE PRINT)

DATE: 4/20/23

COMPANY
Edward Anfolda

SIGNATURE (AUTHORIZED REPRESENTATIVE)

mese

NAME AND TITLE (PLEASE PRINT)

DATE: 04/20/2023

4. **The Agreement**. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. **Waste Accepted at Facility**. Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. **Acceptable Waste**. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. **Rights of Refusal/Rejection**. The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; and/or (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. **Limited License to Enter**. This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. **Charges and Payment**. Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. **Termination/Suspension**. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Generator.

11. **Personnel Knowledge and Authority**. Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. **Indemnification.** Generator agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. The indemnification and other obligations stated in this Section 12 shall survive the expiration and termination of this Agreement.

13. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform**. Except for Generator's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any federal, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice; provided, however, that Generator's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15. **Assignment; Performance of Services**. Generator may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than as specifically set forth in this Agreement.

17. **Continuing Compliance**. The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous**.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

19. **Notices.** All notices required under this Agreement shall be considered as having been given upon being placed in the mail, certified postage prepaid, addressed to Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123235665	4/24/2024	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: Pacific Park Santa Monica Pier

Generator Site Address: 1640 Appian Way

City: Santa Moncia **County:** **State:** CA **Zip:**

Name of Waste: Weathered Wood

Estimated Annual Volume: 40 Cubic Yards

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5 and 25230.

Special Waste Analyst Signature: Joseph Sorokach **Name (Printed):** Joseph Sorokach

Date: 4/24/2023

III. Facility Decision: ⊘ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 4/24/2023

DocuSign Envelope ID: 38E2B64C-FAF1-40DD-B2CF-5146A32D65A4

Express Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123 23 5665

Sales Rep #: 585

I. Generator Information

Generator Name: Pacific Park- Santa Monica Pier

Generator Site Address: 1640 Appian Way

City: Santa Monica County: Los Angeles State: CA Zip: 90401

State ID/Reg No: N/A State Approval/Waste Code: N/A NAICS:

Generator Mailing Address: 380 Santa Monica Pier

City: Santa Monica County: Los Angeles State: CA Zip: 90401

Generator Contact Name: Dana Wyatt Email: DWyatt@PacPark.com

Phone Number: 310-350-3122 Ext: Fax Number:

II. Billing Information

Bill To: Jilk Heavy Construction, Inc. Contact Name: Nol Arcebal

Billing Address: 500 S. Kraemer Blvd Ste 380 Email: ap@jilkhc.com

City: Brea State: CA Zip: 92821 Phone: 312-830-6323

III. Waste Stream Information

Name of Waste:

- [x] **Weathered Wood**
- [ ] **RCRA Empty Containers**
- [ ] **Treated Medical Waste**
- [ ] **Animal Carcass (non-infectious)**
- [ ] **Friable Asbestos**
- [ ] **Nonfriable Asbestos**
- [ ] **Tires**
- [ ] **Meth Contaminated Debris**

Has a sample of this waste been taken? [ ] **Yes** [x] **No**

Process Generating Waste: Demolition for deck repairs at Pacific Park

Method of Shipment: Bulk Complete if "other":

Frequency: One Time

Estimated Annual Volume: 40 Volume Type: Cubic Yards

Color: Brown () Odor: none

784b7d1b-7e52-4053-99f7-4ef49e4677bd

DocuSign Envelope ID: 38E2B64C-FAF1-40DD-B2CF-5146A32D65A4

Express Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Dana Wyatt	Director of Operations	Pacific Park
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: Dana Wyatt 849651859331444...		Apr 24, 2023
Authorized Representative Signature		Date

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INVOICE TO	
CUSTOMER NAME	JILK Heavy Construction
ATTN	JILK Heavy Construction
ADDRESS	500 S Kraemer Blvd
	STE 380
CITY	Brea, CA
STATE	
ZIP CODE	92821
TEL. NO.	(310) 345-2334 FAX NO.

SITE LOCATION		
SITE NAME	JILK Heavy Construction	
ADDRESS	1640 Appian Way	
CITY	Santa Monica, CA	
STATE		
SUITE		
ZIP CODE	90401	
TEL. NO.	(310) 345-2334	FAX NO.
AUTHORIZED BY	Annie Icontro	TITLE
CONTACT	Annie Icontro	TITLE

REPUBLIC SERVICES

Temporary Service Agreement

AGREEMENT NUMBER	A239728695
ACCOUNT NUMBER	902

EMAIL : annieincontro@jilkhc.com

N/O	CONT. GRP	TYPE	SIZE	C	QTY	ACCT. TYPE	C/O	SERV. FREQUENCY	EST. LIFTS	S	P.O. REQ	RECPT. REQ	L/F CODE	OPEN/ CLOSE DATE	LIFT CHARGE	MONTHLY SERVICE	EXTRA LIFT	DISP RATE	ADDITIONAL CHARGES	SUPPLEMENTAL CHARGES	TC/RC CMP
N		RO	40.00Yd(s)	N	1	T	N	O/C	1.0	X		N	FAFI	4/24/2023	[redacted]			[redacted]		Delivery $234.64 Dry Run $225.12 Relocate $245.84 Removal $203.28 Washout $173.30	

Consolidated Disposal Service, L.L.C. DBA Allied Waste Services, Republic Services, Republic Services of Southern California

HEREINAFTER REFERRED TO AS THE "COMPANY"

The undersigned individual signing this Agreement on behalf of the Customer acknowledges that he or she has read and understands the terms and conditions of this Agreement and that he or she has the authority to sign the Agreement on behalf of the Customer.

BY: _____

(AUTHORIZED SIGNATURE)

TITLE: _____

BY :

(AUTHORIZED SIGNATURE)

TITLE: Project Manager

AnnieMarie W Ngotho Incontro

CUSTOMER NAME (PLEASE PRINT)

04.19.2023

DATE OF AGREEMENT

COMMENTS:

Fuel Recovery Fee - Yes, Environmental Reccvery Fee - Yes, Administrative Fee - No

Valued Customer Discount - Delivery for 1 container RO 40.00 yard - $58.64

Delivery Notes:

Safety: No Safety Concerns

WASTE CONTAINER 40 CU YD - Roll off on site - No delivery

Service Notes:

See reverse for Terms and Conditions

WASTE CONTAINER 40 CU YD - Special Waste (Treated Wood) Manifest needed w/each load
Annie (310)345-2334 Minimum lift Fee $350

Exempt from: Administrative Fee

TERMS AND CONDITIONS

1. AGREEMENT. This Customer Service Agreement consists of the service details above, including the Comments ("Service Details"), and these Terms and Conditions (together, the "Agreement"). If Customer's Site is located within a franchised service area and the Terms and Conditions in this Agreement conflict with the applicable franchise agreement with respect to the Services covered by such franchise agreement, the terms and conditions in the franchise agreement shall control.

2. **RESPONSIBLE PARTY.** "Company" is the entity identified in the Service Details. Company is an individual operating subsidiary of Republic Services, Inc. Republic Services, Inc. itself does not perform the waste services and does not contract with customers. Accordingly, all obligations to you rest solely with Company and not with its parent company. All Services hereunder will be managed, performed, and billed for by Company, except to the extent Company may subcontract certain Services to its affiliates or subcontractors, as needed.

3. TERM (SCHEDULED AND ON-CALL SERVICES). FOR ALL SCHEDULED AND ON-CALL SERVICES, THE INITIAL TERM OF THIS AGREEMENT SHALL BEGIN ON THE DATE WHEN SERVICE COMMENCES AND CONTINUE FOR MONTH TO MONTH. UNLESS OTHERWISE SPECIFIED, THIS AGREEMENT SHALL AUTOMATICALLY AND SUCCESSIVELY RENEW FOR MONTH TO MONTH UNLESS EITHER PARTY GIVES WRITTEN NOTICE OF TERMINATION TO THE OTHER AT LEAST 60 DAYS, BUT NOT MORE THAN 180 DAYS, BEFORE THE END OF THE THEN-CURRENT TERM.

4. TERM (TEMPORARY SERVICES). FOR ALL TEMPORARY SERVICES, THE TERM SHALL BEGIN ON THE EFFECTIVE DATE AND CONTINUE THROUGH THE FINAL LIFT OF THE TEMPORARY CONTAINER(S).

5. DEFINITIONS. "Waste" means any waste material that fully conforms to the description of such Waste in this Agreement and its approved waste profile, manifest or other waste documentation. "Non-Conforming Waste" means any waste material not expressly included within the scope of this Agreement, waste material that does not conform to its waste documentation, waste material that is not acceptable at the intended disposal or recycling facility, and/or Waste placed in a container intended for a different type of Waste (such as solid waste in a container for Recyclables). "Recyclables" means material that Company determines can be recycled such as aluminum, used beverage containers, cardboard (free of wax), ferrous metal cans, mixed office paper, newspaper, and plastic containers.

6. SCOPE OF SERVICES; TITLE; NON-CONFORMING WASTE. Customer grants to Company the exclusive right to perform the services set forth in the Service Details ("Services"), and Company agrees to furnish such Services in compliance with all applicable international, federal, state, or local laws or regulations ("Applicable Law"). Customer represents and warrants that all material to be collected under this Agreement shall be only acceptable Waste. Customer agrees not to deposit, or permit the deposit for collection of, any Non-Conforming Waste. Title to and liability for any Non-Conforming Waste shall remain with Customer and shall at no time pass to Company regardless of whether physical possession of Non-Conforming Waste has passed to Company. Company shall acquire title to conforming Waste when collected or received by Company. If Company determines that any Waste is Non-Conforming Waste, it will have the right to reject, revoke acceptance of, or determine alternative disposal for, such Non-Conforming Waste and convey it to Customer or another location. In such event Customer will pay Contractor's reasonable costs for the handling, analysis, transportation, repackaging, and time involved in returning such Non-Conforming Waste to Customer or other location or arranging for alternative disposal.

7. PAYMENT AND CHARGES. Customer shall pay Company all rates, fees, taxes, and other amounts payable under this Agreement for the Services ("Charges") within 20 days after the date of Company's invoice. Any invoiced amounts not received by their due date are subject to a late payment fee, and any payment returned for insufficient funds is subject to an insufficient funds fee, both in an amount at Company's discretion up to the maximum amount allowed by Applicable Law. Customer acknowledges that any late or insufficient funds fees charged by Company are not to be considered a penalty or interest but are a reasonable charge for late or insufficient payments. Unless otherwise agreed, Customer shall pay administrative fees ("ADMIN"), fuel recovery fees ("FRF") environmental recovery fees ("ERF") and a recycling processing charge ("RPC") in the amounts shown on each of Company's invoices, which fees Company may change from time to time by showing the amount on Customer's invoice (additional information regarding these fees is available on Company's website at: www.republicservices.com/customer-support/fee-disclosures). ADMIN, FRF, ERF and RPC are not associated with any explicit cost to service Customer's account but are designed to help Company recover certain costs across its business and achieve an acceptable operating margin. If applicable, Company may impose additional Charges at its prevailing rates for extra service, extra yards, minimum lift, contamination, service attempts and container delivery, relocation, removal and exchange, and other additional services not listed in the Service Details. If Company becomes concerned about Customer's creditworthiness and/or Customer makes any late payment, Company may require Customer to pay a deposit in an amount equal to two months' Charges under this Agreement if allowed by Applicable Law. The rates set forth in the Service Details do not include taxes or franchise and/or local fees, which shall be separately itemized on Customer's invoice where applicable.

8. ADJUSTMENTS TO CHARGES. Notwithstanding any information contained in the Service Details, Company may, from time to time by notice to Customer (on its invoice), add a surcharge, fee or increase any Charges provided in this Agreement to account for: (a) increased Company costs due to uncontrollable events including, but not limited to, changes in Applicable Laws, imposition of taxes, fees or surcharges, or acts of God such as fires, weather, disease, strikes or terrorism; (b) increased Company costs as measured by the most recently trailing 12-months' average in the Consumer Price Index for All Urban Consumers (Waster, Sewer and Trash Collection Services) U.S. City Average, as published by the United States Department of Labor, Bureau of Statistics; (c) increased disposal or processing costs; (d) increased transportation costs; (e) increased fuel costs; (f) costs or fees due to the inclusion of Non-Conforming Waste and/or contamination; (g) decreased value of Recyclables or changes in commodity markets; or (h) actual Services or equipment that differ from those listed in the Service Details (all of the foregoing are "Required Adjustments"). Subject to any Comments in the Service Details, Company may also increase Charges at any time and for any other reason by notice to Customer (on its invoice) and with Customer's consent ("Agreed Adjustments"), which consent may be evidenced verbally, in writing, or by the parties' actions and practices. Unless specified otherwise in Company's notice, all adjustments to charges shall be treated as Agreed Adjustments. Within 30 days of receiving notice of an Agreed Adjustment, Customer may object to the adjustment by calling Customer Service. If Customer does not object to an Agreed Adjustment within 30 days and continues to receive and pay for Services, then Customer shall be deemed to have consented to the Agreed Adjustment by its actions.

9. SERVICE CHANGES. The parties may change the type, size or amount of equipment, the type or frequency of Service, and correspondingly the Charges by mutual agreement, which may be evidenced verbally, in writing, by payment of the invoice, or by the parties' actions and practices. In the event there are changes to Services and/or Charges, or Customer changes its Site Location within the area in which Company provides collection and disposal (or processing) services, the parties agree that this Agreement shall continue in full force and effect as so adjusted.

10. RESPONSIBILITY FOR EQUIPMENT; ACCESS. Any equipment furnished by Company shall remain Company's property. Customer shall be liable for all loss or damage to such equipment (except for normal wear and tear and for loss or damage resulting from Company's handling of the equipment). Customer shall use the equipment only for its proper and intended purpose, shall not overload (by weight or volume), move, or alter the equipment, and shall not allow the equipment to be used for any purpose by any person or entity other than Customer's employees without Company's prior written consent. If a Company container is moved from Customer's Site Location by anyone other than Company, Customer agrees to pay Company $250 per moved container, which amount is a reasonable estimate of the damage Company will incur from the unauthorized moving of its container. After the Initial Term, Company may increase the fee for the unauthorized moving of its container at its discretion. Customer shall provide safe, unobstructed access to the equipment on the scheduled collection day. Company may charge an additional fee for any additional collection service required by Customer's failure to provide access. Company shall not be responsible for any damages to Customer's pavement, curbing, or other driving surfaces resulting from Company providing service at Customer's Site.

11. COMPANY INDEMNIFICATION. COMPANY SHALL INDEMNIFY, DEFEND, AND HOLD HARMLESS CUSTOMER FROM AND AGAINST ANY AND ALL CLAIMS, DAMAGES, SUITS, PENALTIES, FINES, REMEDIATION COSTS, AND LIABILITIES (INCLUDING COURT COSTS AND REASONABLE ATTORNEYS' FEES) (COLLECTIVELY, "LOSSES") TO THE EXTENT ARISING FROM COMPANY'S NEGLIGENCE, WILLFUL MISCONDUCT OR BREACH OF THIS AGREEMENT.

12. CUSTOMER INDEMNIFICATION. CUSTOMER SHALL INDEMNIFY, DEFEND, AND HOLD HARMLESS TO THE FULLEST EXTENT PERMITTED BY LAW COMPANY, ITS PARENT, AND CORPORATE AFFILIATES FROM AND AGAINST ANY AND ALL LOSSES TO THE EXTENT ARISING FROM CUSTOMER'S NEGLIGENCE, WILLFUL MISCONDUCT, PROVISION OF NON-CONFORMING WASTE, AND CUSTOMER'S USE, OPERATION, OR POSSESSION OF COMPANY'S EQUIPMENT. THE OBLIGATIONS SET FORTH IN SECTIONS 11 AND 12 SHALL SURVIVE THE EXPIRATION AND/OR TERMINATION OF THIS AGREEMENT.

13. SUSPENSION; TERMINATION. If any amount due from Customer is not paid within 60 days after the date of Company's invoice, Company may, without notice and without terminating this Agreement, suspend collecting and disposing of Waste until Customer has paid such amount to Company. If Company suspends service, Customer shall pay Company a service interruption fee in an amount determined by Company in its discretion up to the maximum amount allowed by Applicable Law. Either party may terminate this Agreement upon 30 days prior written notice to the other party if the other party breaches a material obligation of the Agreement (including non-payment) and fails to cure such breach within 10 days after receiving written notice of the breach. Company may terminate this Agreement for its convenience upon 30 days prior written notice to Customer.

14. LIQUIDATED DAMAGES. If Customer terminates this Agreement before its expiration for any reason other than Company's breach (or if Company terminates this Agreement due to Customer's non-payment), Customer shall pay Company an amount equal to the average Charges from Customer's last 6 invoices multiplied by the lesser of (a) six months or (b) the number of months remaining in the Term. Customer

acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

15. RIGHT OF FIRST REFUSAL. Customer agrees to notify Company in writing of any offer that Customer receives from any third party relating to the provision of the Services during any term of this Agreement ("Offer") and agrees to give Company the right of first refusal and reasonable opportunity to match such Offer prior to acceptance.

16. COMMUNICATIONS. To ensure timely and accurate receipt of communications, all communications to Company regarding this Agreement and/or the Services must come directly from Customer. Customer acknowledges that Company will not accept any communications from any third parties acting as the Customer's agent or representative (absent proof of medical necessity as reasonably determined by Company). All notices to Company pertaining to this Agreement shall be sent via email to contractnotice@republicservices.com. If (and only if) Customer does not have access to email, written notice shall be provided via certified mail to: Republic Services, Attn: Customer Contracts,18500 N. Allied Way, Phoenix, AZ 85054. Any notices received from Customer will be deemed effective no less than 60 days from the date received by Company.

17. DISPUTE RESOLUTION-ARBITRATION; CLASS ACTION WAIVER. (a) Except for Excluded Claims (defined below), Customer and Company agree that any and all existing or future controversy or claim between them arising out of or related to this Agreement, whether based in contract, law or equity or alleging any other legal theory, or arising prior to, in connection with, or after the termination of this Agreement, shall be settled by arbitration administered by the American Arbitration Association in accordance with its Commercial Arbitration Rules with a single arbitrator, and judgment on the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. (b) Customer and Company agree that under no circumstances, whether in arbitration or otherwise, may Customer bring any claim against Company, or allow any claim that Customer may have against Company to be asserted, as part of a class action, on a consolidated or representative basis or otherwise aggregated with claims brought by, or on behalf of, any other entity or person, including other customers of Company or its parent or corporate affiliates. (c) The following claims constitute "Excluded Claims" and are not subject to mandatory binding arbitration: (i) either party's claims against the other in connection with bodily injury or real property damage; (ii) claims for indemnity pursuant to the Indemnification Section of this Agreement; and (iii) Company's claims against Customer for collection or payment of Charges, damages (liquidated or otherwise), or any other amounts due or payable to Company by Customer under this Agreement.

18. MISCELLANEOUS. (a) This Agreement shall be governed by and construed in accordance with the internal laws of the State where the Services are provided, without giving effect to any conflict of law provision. (b) This Agreement represents the entire agreement between the parties and supersedes all prior agreements, whether written or verbal, that may exist between the parties for the same Services. (c) Except for Customer's obligation to pay amounts due to Company, any failure or delay in performance due to contingencies beyond a party's reasonable control, including strikes, riots, terrorist acts, compliance with Applicable Laws or governmental orders, fires and acts of God, shall not constitute a breach of this Agreement. (d) Company shall have no confidentiality obligation with respect to any Waste or Recyclables. (e) Company may assign this Agreement without Customer's consent. This Agreement shall be binding upon and inure solely to the benefit of the parties and their permitted successors and assigns. (f) If any provision of this Agreement is declared invalid or unenforceable, it shall be modified so as to be valid and enforceable but so as most nearly to retain the intent of the Parties. If such modification is not possible, such provision shall be severed from this Agreement. In either case, the validity and enforceability of the remaining provisions of this Agreement shall not in any way be affected thereby. (g) Failure or delay by either party to enforce any provision of this Agreement will not be deemed a waiver of future enforcement of that or any other provision. (h) If any litigation or arbitration is commenced under this Agreement, the successful party shall be entitled to recover, in addition to such other relief as the court may award, its reasonable attorneys' fees, expert witness fees, litigation and arbitration related expenses, and court or other costs incurred in such litigation, arbitration or proceeding. (i) Customer and Company agree that electronic signatures are valid and effective, and that an electronically stored copy of this Agreement constitutes proof of the signature and contents of this Agreement, as though it were an original.

The following Terms and Conditions apply to Customer only if Customer is receiving the applicable Service from Company.

19. CONTAINER REFRESH. If the Services include Container Refresh, Customer is limited to one (1) exchange of each participating container every 12 months of paid enrollment; any additional exchange is subject to Company's standard container exchange fee. Customer agrees that during any enrollment year in which Customer receives an exchange under the program, any request by Customer to cancel Container Refresh will not be effective until Customer completes payment for 12 consecutive months of enrollment in the program. The Charge for Container Refresh will be itemized on Customer's invoice, which Charge may be changed by Company by showing the amount of the new Charge on Customer's invoice. Company reserves the right to suspend or cancel the Container Refresh program at any time.

20. RECYCLABLES. If the Services include recycling, Customer shall comply with all Applicable Laws regarding the separation of solid waste from Recyclables and not place items in any recycling container that may make the Recyclables unsuitable for recycling or decrease the value of the Recyclables. Customer agrees that Company in its sole discretion may determine whether any load of Recyclables is contaminated and may refuse to collect it or may collect it but charge Customer for any additional costs, fees or surcharges associated with sorting, processing, contamination, transportation, and/or disposal.

21. ROLL-OFF. Republic may charge rent or a minimum lift charge if a roll-off container is not lifted or hauled at least once per month. The following additional terms shall apply to any roll-off service: (a) Company will not accept: white goods, tires, drums, paint, solvents, chemicals, or other such materials that would be considered flammable or explosive, or other materials not permitted to be disposed of at the designated disposal facility. (b) If the roll-off is loaded with extremely heavy material, such as block concrete, asphalt, dirt or roofing material, such material must be evenly distributed at the bottom of the roll-off, shall not exceed 3 feet in depth and shall not exceed 10 tons in weight. (c) Customer shall not load materials above the top of the roll-off. (d) Customer shall close and latch the back door of the roll-off before service. The driver cannot load a roll-off with an open or unlatched back door. (e) If Company is unable to safely haul a roll-off, Customer shall off-load the impermissible overage or type of materials or otherwise improve any conditions necessary to enable safe hauling. Customer will be charged a dry run fee for each attempted trip where hauling does not occur. (f) If Company hauls an overloaded roll-off, Customer shall be responsible for all service charges based on the actual tonnage hauled, plus any tickets, fines, penalties, or damages incurred by Republic due to the overweight container.

22. EQUIPMENT RENTAL. Rented equipment shall remain at Customer's Site, except when handled by Company. Customer shall not make any changes, alterations, additions, or improvements in or to the equipment or move or relocate the equipment without Company's prior written consent. Customer shall allow Company and/or its designee to enter the Site to examine or inspect the equipment, perform preventative maintenance and repairs, or for any other purpose permitted by this Agreement. Company has the right, at any time and at its sole discretion, to substitute the equipment for similar equipment of make and size, or of a make and size that provides for more efficient or economical service.

MAINTENANCE. Company shall maintain the equipment in good operating condition and make repairs necessitated only by normal wear and tear. Customer shall be responsible for repairs, replacement parts, and labor necessitated by abuse or negligent operation or care of the equipment. Once installed, Customer shall have the care, custody, and control of the equipment. Customer assumes all risks of loss, damage, destruction or interference with the use of, and accepts responsibility for, the equipment and the supervision and operation of the equipment, accessories and contents during the term of this Agreement. Company will not be responsible for installation of utility service necessary to operate the equipment or any utility service charges attributable to the equipment's operation. If electrical or any other installment requirements are not satisfied prior to delivery of the equipment, Company may charge Customer all costs incurred by Company for its inability to complete the installation of the equipment. Customer shall be responsible for (a) connecting the equipment to the electrical service and any other utility services in conformance with all applicable building and zoning codes and regulations, (b) providing the necessary electrical power to operate the equipment, and (c) all costs of electrical wiring, and/or other utility hook-up and inspection thereof necessary for use of the equipment.

CUSTOMER'S OBLIGATIONS. Customer shall operate the equipment solely for its intended purpose and in strict conformance with this Agreement and the manufacturers and Company's instructions. Customer shall comply with all reporting and operating requirements related to the operation, maintenance, and management of the equipment as required by Company or as otherwise mandated by Applicable Law. Any Site-related licenses and permits concerning the equipment shall be obtained and maintained by Customer at Customer's sole cost and expense. Customer shall take all action necessary to ensure that the equipment is not abused, misused, or otherwise harmed by Customer or its employees, agents, and representatives or any other persons. Customer shall immediately notify Company of any damage to the equipment, or any injuries relating to the use or operation of the equipment. Customer shall keep the equipment free from any and all liens and claims and shall not do or permit any act whereby Company's title or rights might be encumbered or impaired. **If this Agreement is terminated early for any reason, in addition to the Liquidated Damages, Customer shall also reimburse Company for any fabrication, configuration, installation and de-installation costs, including, but not limited to, labor costs, incurred in placing and removing the equipment from Customer's Site.**

DISCLAIMER OF WARRANTIES; DAMAGES. COMPANY MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, AS TO ANY MATTER WHATSOEVER, INCLUDING, WITHOUT LIMITATION, THE CONDITION OF THE EQUIPMENT, ITS MERCHANTABILITY OR ITS FITNESS FOR ANY PARTICULAR PURPOSE, AND COMPANY HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES THEREFOR. COMPANY EXPRESSLY DISCLAIMS ALL INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR EXEMPLARY DAMAGES ARISING IN CONNECTION WITH THIS AGREEMENT OR THE EQUIPMENT, INCLUDING, WITHOUT LIMITATION, LOST SALES AND PROFITS AND OTHER BUSINESS INTERRUPTION DAMAGES, EVEN IF COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES AND WITHOUT REGARD TO THE NATURE OF THE CLAIM OR THE UNDERLYING THEORY OR CAUSE OF ACTION (WHETHER IN CONTRACT, TORT, OR OTHERWISE), AND CUSTOMER HEREBY EXPRESSLY WAIVES AND RELEASES COMPANY FROM AND AGAINST ANY SUCH DAMAGES.

23. ELECTRONIC MATERIAL AND/OR BULB & BATTERY RECYCLING SERVICES. Electronic Material Services and/or Bulb & Battery Recycling Services are provided only within the continental United States (not available in Alaska or Hawaii). Company or its subcontractor shall collect, transport, or receive via mail, treat, recycle, and/or dispose of Electronic Material and/or Bulbs & Batteries as provided in the Service Details. Customer acknowledges and understands that due to a variety of factors, including without limitation market conditions and processing costs, some or all of the Electronic Material and Bulbs & Batteries may be disposed of in a disposal facility and not recycled. Weights and/or unit counts of all Electronic Material and Bulbs & Batteries shall be determined upon receipt by Company or its subcontractor. All references to "Company" in this section of the Agreement shall also include Company's subcontractor(s).

ADDITIONAL DEFINITIONS. The following additional definitions apply to the recycling of Electronic Material and Bulbs & Batteries only:

"Bulbs & Batteries" means those materials included in the Environmental Protection Agency's Universal Waste regulations set forth in 40 C.F.R. 273, including bulbs, batteries, TSCA-exempt ballasts and non-PCB ballasts, lamps, and other mercury-containing items and materials.

"Electronic Material" consists of any video display devices (CRT or flat panel), computers, servers, laptops, tablets, cell phones, and other electronics that are not excluded by these provisions relating to Electronic Material Services. Electronic Material does not include any solid waste, non-electronic Recyclable Material or Excluded Waste.

"Excluded Waste" means any material other than Electronic Material or Bulbs & Batteries. Electronic Material and Bulbs & Batteries may not be commingled. If Electronic Material is commingled with Bulbs & Batteries for a Bulb & Battery Recycling Service, the Electronic Material will be treated as Excluded Waste, and vice versa.

BOX MAIL-BACK SERVICES (Electronic Material and Bulbs & Batteries). In connection with Box Mail-Back Services, the following additional terms shall apply:

Pre-Payment; No Refunds. Payment for Box Mail-Back Services is made in advance and will not be refunded for any reason after a box has been shipped to Customer. If Customer returns an unused box, Customer will be responsible for its shipping cost plus a restocking fee.

Expiration of Boxes. Each box must be received by Company or its subcontractor within 1 year from the date of order (the "Expiration Date"). With respect to Electronic Material, the Expiration Date can be extended an additional year for a fee of 50% of the original box price. Company has no obligation after the Expiration Date to process materials sent in for recycling and may return such materials to Customer at Customer's expense.

Safe Packaging Obligation. Customer is responsible for complying with all packaging (including safely packaging contents), sealing, and shipping instructions included with each box.

Electronic Material Specifications. With respect to Electronic Material Box Mail-Back Services, Company reserves the right to bill additional amounts for any of the following: (i) any box exceeding its specified maximum weight; (ii) shipping materials in the wrong box or mixing materials in a box; (iii) shipping materials that require additional labor for unpacking or disassembly; (iv) processing electronics containing wood; (v) additional shipping charges beyond the amounts prepaid for any prepaid label; and/or (vi) return shipping charges for any Excluded Waste or boxes received with expired labels.

Bulbs & Batteries Specifications. With respect to Bulb & Battery Recycling Box Mail-Back Services, Company reserves the right to bill additional amounts for any of the following: (i) any box exceeding its specified maximum weight; (ii) shipping materials in the wrong box or mixing materials in a box; (iii) shipping materials that require additional labor for unpacking or disassembly; (iv) additional shipping charges beyond the amounts prepaid for any prepaid label; and/or (v) return shipping charges for any Excluded Waste or boxes with expired labels received by Company.

PACK-UP & PICK UP SERVICES (Electronic Material and Bulbs & Batteries). In connection with Pack Up & Pick Up Services, the following additional terms shall apply:

Safe Packaging Obligation. Customer is responsible for complying with all safety, packaging, sealing, and loading/palletizing instructions (including removing materials from their original packaging and/or not individually wrapping all materials) included with each order and shall ensure such is completed prior to the scheduled pickup date.

Electronic Material Specifications. With respect to Electronic Material Pack-Up and Pick-Up Services, Customer shall ensure that Electronic Material is sorted into the following categories: (1) video display devices (CRT); (2) video display devices (flat panel); (3) computers; (4) laptops, tablets, cell phones; and (5) all other Electronic Material. A full list of items that fall into each of these categories is available upon request. If the Electronic Material is not properly sorted, is not removed from its original packaging, and/or is not properly loaded and palletized, additional fees will apply.

FULL SERVICE (Electronic Material). There is a minimum charge for Full Service. For loads of Electronic Material up to 466 pounds, the minimum charge for Full Service will be $660. For loads of Electronic Material over 466 pounds, the charge for Full Service will the weight of the load multiplied by the per pound charge quoted in the Service Details.

CUSTOMER'S INITIAL: AWNI

DATE: {{"type":"Date";}} 04.19.2023

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123237716	5/31/2026	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: Maneri Traffic Control

Generator Site Address: 781 Pier A Plaza

City: Long Beach **County:** **State:** CA **Zip:**

Name of Waste: Treated Wood Waste

Estimated Annual Volume: 12,000 Pounds

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5 and 25230.

Special Waste Analyst Signature: Joseph Sorokach **Name (Printed):** Joseph Sorokach

Date: 5/31/2023

III. Facility Decision: ☑ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete. Michael Stewart

General Manager or Designee: **Name (Printed):** Michael Stewart

Date: 5/31/2023

DocuSign Envelope ID: 4182423E-4658-4C16-BA72-6823E74F5884

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123 23 7716

Sales Rep #: 585

I. Generator Information

Generator Name: Maneri Traffic Control-07-327304

Generator Site Address: 781 Pier A Plaza

City: Long Beach | County: Los Angeles | State: CA | Zip: 90813

State ID/Reg No: CAL000443951 | State Approval/Waste Code: N/A | NAICS: 561990

Generator Mailing Address: 4949 2nd Street

City: Fallbrook | County: San Diego | State: CA | Zip: 92028

Generator Contact Name: Gabrielle Valencia | Email: gvalencia@maneritrafficcontrol.com

Phone Number: 951-695-5104 | Ext: | Fax Number: 9516955105

II. Billing Information

Bill To: Maneri Traffic Control, Inc. | Contact Name: Gabrielle Valencia

Billing Address: 4949 2nd Street | Email: gvalencia@maneritrafficcontrol.com

City: Fallbrook | State: CA | Zip: 92028 | Phone: 951-695-5104

III. Waste Stream Information

Name of Waste: Treated Wood Waste

Process Generating Waste: Treated wood from damaged guardrail on freeways in Los Angeles County. The wood dimensions is 6' tall x 8" wide.

Type of Waste: Pollution Control | Physical State: Solid

Method of Shipment: Bulk | Estimated Volume: 12000 | Volume Type: Pounds

Frequency: Ongoing | Disposal Consideration: Biomremediation

IV. Representative Sample Certification

☑ **No Sample Taken** ☐ **Sample Taken** Type of Sample:

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

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Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

	Characteristic Components (must equal 100%):	% By Weight (out of 100% - ranges acceptable):
1.	Treated Wood Waste	typical/actual: 100%

V. Physical Characteristics of Waste cont.

Color: Brown ()

Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
none	☐ Yes ☑ No	100%	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1.	Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes ☑ No
2.	Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 [reference 40 CFR 261.23(a)(5)]?	☐ Yes ☑ No
3.	Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes ☑ No
4.	Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes ☑ No
5.	Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes ☑ No
6.	Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	☐ Yes ☑ No
7.	Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes ☑ No
8.	Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
9.	Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
10.	Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes ☑ No

Republic Services Waste Handling Questions

1.	Does this waste generate heat or react when contacted with water/moisture?	☐ Yes ☑ No
2.	Does the waste contain sulfur or sulfur by-products?	☐ Yes ☑ No
3.	Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes ☑ No
4.	Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? . If yes, please provide clarification.	☐ Yes ☑ No

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Special Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Gabrielle Valencia	Office Manager	Maneri Traffic Control
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: Gabrielle Valencia 6175A1F03436412...		May 31, 2023
Authorized Representative Signature		Date

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REPUBLIC SERVICES

SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: 51232136282

INVOICE TO (Generator Billing Information)	
GENERATOR NAME (the "Generator")	
Maneri Traffic Control Inc.	
ATTN:	
Gabriella Valencia	
ADDRESS	
4949 2nd St.	
CITY STATE	ZIP CODE
Fallbrook CA, 92028	
TEL. NO.	FAX NO.
818-606-7637	

LANDFILL FACILITY ("Facility")	
LEGAL ENTITY NAME	
BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL	
ADDRESS	
14747 SAN FERNANDO RD	
CITY STATE	ZIP CODE
SYLMAR, CA 91342	
TEL. NO.	FAX NO.
818.362.2141	
AUTHORIZED BY:	TITLE
CONTACT	TITLE

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
WEATHERED WOOD	LANDFILL	[redacted]		N/A

Additional Information: SITE: SAME AS INVOICE TO
MATERIAL CODE: VS-SW-WEATHERED WOOD | PROFILE EXPIRES 5/31//2026 | ENVIRONMENTAL RECOVERY FEE (ERF) $18.00/LOAD | FUEL RECOVERY FEE (FRF) VARIES CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Cannot Exceed Daily Volume of 12,000/lbs. Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3. **Term of Agreement. .** This Agreement is effective for 12 months beginning on 11/16/2021 (the "Initial Term") and shall automatically renew for successive 12 month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Generator must send to multiple parties under any Applicable Laws, Generator grants to Company the right to bid and/or compete for any future services sought by Generator, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, GENERATOR IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Maria Maneri | CEO/ President

NAME AND TITLE (PLEASE PRINT)

DATE: 6/1/2023

COMPANY

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Edward Antolin

NAME AND TITLE (PLEASE PRINT)

DATE: 06/02/2023

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; and/or (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. **Limited License to Enter.** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. **Charges and Payment.** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. **Termination/Suspension.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Generator.

11. **Personnel Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and loca. law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. **Indemnification.** Generator agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. The indemnification and other obligations stated in this Section 12 shall survive the expiration and termination of this Agreement.

13. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including without limitation, whether any federal, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice; provided, however, that Generator's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15. **Assignment; Performance of Services.** Generator may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereundar, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than as specifically set forth in this Agreement.

17. **Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

19. **Notices.** All notices required under this Agreement shall be considered as having been given upon being placed in the mail, certified postage prepaid, addressed to Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement

GENERATOR: _____ COMPANY: _____

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123238453	6/13/2024	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: William Steckbauer

Generator Site Address: 25 Dapplegray Lane

City: Rollin Hills Estates **County:** **State:** CA **Zip:**

Name of Waste: Weathered Wood

Estimated Annual Volume: 1 Tons

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5 and 25230.

Special Waste Analyst Signature: Joseph Sorokach **Name (Printed):** Joseph Sorokach

Date: 6/13/2023

III. Facility Decision: ◉ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 6/13/2023

DocuSign Envelope ID: 5892F5DB-81D6-420E-AAEB-FA006344EC8C

Express Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123 23 8453

Sales Rep #:

I. Generator Information

Generator Name: william steckbauer

Generator Site Address: 25 Dapplegray Lane

City: Rolling Hills Estates County: CA State: CA Zip: 90274

State ID/Reg No: no State Approval/Waste Code: N/A NAICS:

Generator Mailing Address: 25 Dapplegray Lane

City: Rolling Hills Estates County: CA State: CA Zip: 90274

Generator Contact Name: William (Bill) and Cherie Steckbauer Email: bill.steckbauer@gmail.com

Phone Number: 310-387-2767 Ext: 13103872767 Fax Number:

II. Billing Information

Bill To: william steckbauer Contact Name: bill

Billing Address: 25 Dapplegray Lane Email: bill.steckbauer@gmail.com

City: Rolling Hills Estates State: CA Zip: 90274 Phone: 310-387-2767

III. Waste Stream Information

Name of Waste:

- [x] **Weathered Wood**
- [ ] **RCRA Empty Containers**
- [ ] **Treated Medical Waste**
- [ ] **Animal Carcass (non-infectious)**
- [ ] **Friable Asbestos**
- [ ] **Nonfriable Asbestos**
- [ ] **Tires**
- [ ] **Meth Contaminated Debris**

Has a sample of this waste been taken? [ ] **Yes** [x] **No**

Process Generating Waste: small retaining wall of rail road ties was built over 40 years ago. Many ties were rotted and disintegrating and were replaced. About 30 or 35 old disintegrated rail road ties need to be dumped.

Method of Shipment: Bulk Complete if "other":

Frequency: One Time

Estimated Annual Volume: 1 Volume Type: Tons

Color: Brown (Black) Odor: none

52ac1a6e-0f22-44f7-b46b-def2e454b7e6

DocuSign Envelope ID: 5892F5DB-81D6-420E-AAEB-FA006344EC8C

Express Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

William Steckbauer	homeowner	homeowner
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: William Steckbauer DE1F682480C5467...		Jun 13, 2023
Authorized Representative Signature		Date

52ac1a6e-0f22-44f7-b46b-def2e454b7e6

REPUBLIC SERVICES

SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: 51232136282

INVOICE TO (Generator Billing Information)	
GENERATOR NAME (the "Generator")	
William Steckbauer (Cash Customer)	
ATTN:	
William Steckbauer	
ADDRESS	
25 Dapplegray Lane	
CITY / STATE	ZIP CODE
Rolling Hills CA	90274
TEL. NO.	FAX NO.
310-387-2767	

LANDFILL FACILITY ("Facility")	
LEGAL ENTITY NAME	
BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL	
ADDRESS	
14747 SAN FERNANDO RD	
CITY / STATE	ZIP CODE
SYLMAR, CA 91342	
TEL. NO.	FAX NO.
818.362.2141	
AUTHORIZED BY:	TITLE
CONTACT	TITLE

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
WEATHERED WOOD	LANDFILL	[redacted]		N/A

Additional Information: SITE: SAME AS INVOICE TO
MATERIAL CODE: VS-SW-WEATHERED WOOD | PROFILE EXPIRES 6/13/2024 | ENVIRONMENTAL RECOVERY FEE (ERF) $18.00/LOAD | FUEL RECOVERY FEE (FRF) VARIES CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Cannot Exceed Daily Volume of 1 Ton Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3. **Term of Agreement. .** This Agreement is effective for 12 months beginning on 6/14/2024 (the "Initial Term") and shall automatically renew for successive 12 month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Generator must send to multiple parties under any Applicable Laws, Generator grants to Company the right to bid and/or compete for any future services sought by Generator, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, GENERATOR IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

WILLIAM STECKBAUER
NAME AND TITLE (PLEASE PRINT)

DATE: 6/14/23

COMPANY Edward Antolin

SIGNATURE (AUTHORIZED REPRESENTATIVE)

MESE
NAME AND TITLE (PLEASE PRINT)

DATE: 06/15/2023

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any); any Special Waste Profiles (including any approved changes and re-certification's) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively "Applicable Laws").

6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

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10. **Termination/Suspension.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Generator.

11. **Personnel Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. **Indemnification.** Generator agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. The indemnification and other obligations stated in this Section 12 shall survive the expiration and termination of this Agreement.

13. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any federal, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice; provided, however, that Generator's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15. **Assignment; Performance of Services.** Generator may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than as specifically set forth in this Agreement.

17. **Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

19. **Notices.** All notices required under this Agreement shall be considered as having been given upon being placed in the mail, certified postage prepaid, addressed to Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: _____ COMPANY: _____

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123238458	6/13/2024	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: Alhambra Police Department

Generator Site Address: 211 S First St

City: Alhambra **County:** **State:** CA **Zip:**

Name of Waste: Marijuana

Estimated Annual Volume: 500 Pounds

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

This material must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: Joseph Sorokach **Name (Printed):** Joseph Sorokach

Date: 6/13/2023

III. Facility Decision: ✓ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete. Michael Stewart

General Manager or Designee: **Name (Printed):** Michael Stewart

Date: 6/13/2023

DocuSign Envelope ID: 91D19B1D-6E58-48E1-BAD6-33C2FA980577

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123 23 8456

Sales Rep #:

I. Generator Information

Generator Name: Alhambra Police Department

Generator Site Address: 211 S. First St.

City: Alhambra County: Los Angeles State: CA Zip: 91801

State ID/Reg No: ca State Approval/Waste Code: California NAICS:

Generator Mailing Address: 211 S. First St.

City: Alhambra County: Los Angeles State: CA Zip: 91801

Generator Contact Name: Lieutenant J. Lee Email: mlee@alhambrapd.org

Phone Number: 626-570-5121 Ext: Fax Number:

II. Billing Information

Bill To: Nicole Smith Contact Name: Nicole Smith

Billing Address: 211 S. First St. Email: nsmith@alhambrapd.org

City: Alhambra State: CA Zip: 91801 Phone: 626-570-5151

III. Waste Stream Information

Name of Waste: Marijuana

Process Generating Waste: large, bulk amount of marijuana that needs to be destroyed.

Type of Waste: Industrial Process Physical State: Solid

Method of Shipment: Bagged Estimated Volume: 500 Volume Type: Pounds

Frequency: One Time Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ **No Sample Taken** ☐ **Sample Taken** Type of Sample:

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

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Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

	Characteristic Components (must equal 100%):	% By Weight (out of 100% - ranges acceptable):
1.	marijuana	typical/actual: 100%

V. Physical Characteristics of Waste cont.

Color: Green ()

Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
marijuana (strong)	☐ Yes ☑ No	100%	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1.	Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes ☑ No
2.	Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 [reference 40 CFR 261.23(a)(5)]?	☐ Yes ☑ No
3.	Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes ☑ No
4.	Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes ☑ No
5.	Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes ☑ No
6.	Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	☐ Yes ☑ No
7.	Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes ☑ No
8.	Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
9.	Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
10.	Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes ☑ No

Republic Services Waste Handling Questions

1.	Does this waste generate heat or react when contacted with water/moisture?	☐ Yes ☑ No
2.	Does the waste contain sulfur or sulfur by-products?	☐ Yes ☑ No
3.	Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes ☑ No
4.	Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? . If yes, please provide clarification.	☐ Yes ☑ No

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Special Waste Profile

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

John Lee	Lieutenant	Alhambra Police Department
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: John Lee 5AF13CCCCBDF434...		Jun 13, 2023
Authorized Representative Signature		Date

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REPUBLIC SERVICES

SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: 51231621434

INVOICE TO (Generator Billing Information)	
GENERATOR NAME (the "Generator")	
Alhambra Police Department (Invoice Customer)	
ATTN:	
Nicole Smith	
ADDRESS	
211 S. First St.	
CITY / STATE	ZIP CODE
Alhambra, CA, 91801	
TEL. NO.	FAX NO.
626-570-5151	

LANDFILL FACILITY ("Facility")	
LEGAL ENTITY NAME	
BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL	
ADDRESS	
14747 SAN FERNANDO RD	
CITY / STATE	ZIP CODE
SYLMAR, CA 91342	
TEL. NO.	FAX NO.
818.362.2141	
AUTHORIZED BY:	TITLE
CONTACT	TITLE

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
OFF SPEC/Cannabis	LANDFILL	[redacted]	INVOICE AND LATE FEES APPLY	N/A

Additional Information: SITE: SAME AS BILLING
MATERIAL CODE: VQ-SW-OFF SPEC MATERIAL | PROFILE EXPIRES 6/13/2024 | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED, APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL (LOADS MUST BE SCHEDULED 24 HOURS IN ADVANCE).

Cannot Exceed Daily Volume of 500/Pounds Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3. **Term of Agreement. .** This Agreement is effective for 12 months beginning on 6/14/2024 (the "Initial Term") and shall automatically renew for successive 12 month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Generator must send to multiple parties under any Applicable Laws, Generator grants to Company the right to bid and/or compete for any future services sought by Generator, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, GENERATOR IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

LIEUTENANT JOHN LEE

NAME AND TITLE (PLEASE PRINT)

DATE: 6-15-23

COMPANY

Edward Antolin

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Edward Antolin
MESE

NAME AND TITLE (PLEASE PRINT)

DATE: 06/15/2023

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; and/or (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. **Limited License to Enter.** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. **Charges and Payment.** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. **Termination/Suspension.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warranties or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Generator.

11. **Personnel Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. **Indemnification.** Generator agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. The indemnification and other obligations stated in this Section 12 shall survive the expiration and termination of this Agreement.

13. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any federal, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice; provided, however, that Generator's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15. **Assignment; Performance of Services.** Generator may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than as specifically set forth in this Agreement.

17. **Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

19. **Notices.** All notices required under this Agreement shall be considered as having been given upon being placed in the mail, certified postage prepaid, addressed to Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	5123238743	6/19/2024	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 5123 - Sunshine Canyon LF

Generator Name: Security Paving Company

Generator Site Address: 16959 Knott Ave

City: La Miranda **County:** **State:** CA **Zip:**

Name of Waste: Weathered Wood

Estimated Annual Volume: 10 Cubic Yards

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5 and 25230.

Special Waste Analyst Signature: Joseph Sorokach **Name (Printed):** Joseph Sorokach

Date: 6/19/2023

III. Facility Decision: ✓ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Michael Stewart **Name (Printed):** Michael Stewart

Date: 6/19/2023

DocuSign Envelope ID: 9291E428-2075-42F7-B30C-124278E6C24E

Express Waste Profile

REPUBLIC SERVICES

Disposal Facility: Sunshine Canyon Landfill

Waste Profile #: 5123 23 8743

Sales Rep #: 585

I. Generator Information

Generator Name: Security Paving Company

Generator Site Address: 16959 Knott Ave

City: La Mirada County: Los Angeles State: CA Zip: 90638

State ID/Reg No: N/A State Approval/Waste Code: N/A NAICS:

Generator Mailing Address: 3075 Townsgate Rd, Suite 200

City: Westlake Village County: Los Angeles State: CA Zip: 91361

Generator Contact Name: Sal Deraki Email: Sal@securitypaving.com

Phone Number: 818-481-7953 Ext: Fax Number:

II. Billing Information

Bill To: Security Paving Company Contact Name: Karla

Billing Address: 3075 Townsgate Rd, Suite 200 Email: AP@Securitypaving.com

City: Westlake Village State: CA Zip: 91361 Phone: 818-362-9200

III. Waste Stream Information

Name of Waste:

- [x] **Weathered Wood**
- [ ] **RCRA Empty Containers**
- [ ] **Treated Medical Waste**
- [ ] **Animal Carcass (non-infectious)**
- [ ] **Friable Asbestos**
- [ ] **Nonfriable Asbestos**
- [ ] **Tires**
- [ ] **Meth Contaminated Debris**

Has a sample of this waste been taken? [ ] **Yes** [x] **No**

Process Generating Waste: Misc Construction. roadway signposts and Metal Bean Guardrail post

Method of Shipment: Bulk Complete if "other":

Frequency: One Time

Estimated Annual Volume: 10 Volume Type: Cubic Yards

Color: Brown () Odor: none

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DocuSign Envelope ID: 9291E428-2075-42F7-B30C-124278E6C24E

VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/ Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Sal Deraki	Project Manager	Security Paving Company
Authorized Representative Name (Printed)	Title (Printed)	Company Name
DocuSigned by: Sal Deraki A0F5017C3EEC482...		Jun 19, 2023
Authorized Representative Signature		Date

5b67ac7d-ad8f-4a01-ac81-de310ee38bba

REPUBLIC SERVICES

SPECIAL WASTE DISPOSAL SERVICES AGREEMENT FOR NON-HAZARDOUS WASTES

Special Waste Profile No: 51232136282

INVOICE TO (Generator Billing Information)	
GENERATOR NAME (the "Generator")	Security Paving Company (Credit Card/Cash)
ATTN:	Karla or Sal Deraki
ADDRESS	3075 Townsgate Rd. STE# 200
CITY / STATE	Westlake Village, CA
ZIP CODE	91361
	818-362-9200

LANDFILL FACILITY ("Facility")	
LEGAL ENTITY NAME	BROWNING-FERRIS INDUSTRIES OF CA INC DBA SUNSHINE CANYON LANDFILL
ADDRESS	14747 SAN FERNANDO RD
CITY / STATE	SYLMAR, CA 91342
ZIP CODE	
TEL. NO.	818.362.2141
FAX NO.	
AUTHORIZED BY:	
TITLE	
CONTACT	
TITLE	

1. **Special Waste Services.** Subject to the terms and conditions contained in this Agreement (as defined in Section 4), Company agrees to transport for disposal to, and cause to be accepted at, the Facility designated above, Acceptable Waste (as defined in Section 6) as designated below.

2. **Rates:**

A. Rates for Disposal:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
WEATHERED WOOD	LANDFILL	[redacted]		N/A

Additional Information: SITE: SAME AS INVOICE TO
MATERIAL CODE: VS-SW-WEATHERED WOOD | PROFILE EXPIRES 6/19/2024 | ENVIRONMENTAL RECOVERY FEE (ERF) $18.00/LOAD | FUEL RECOVERY FEE (FRF) VARIES CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Cannot Exceed Daily Volume of 10 CUBIC YARDS Without Prior Approval of Company.

B. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

C. Taxes, Fees & Other Charges. Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws, ordinances and regulations, and all charges set forth in Section 9, including, without limitation, site specific fees, host fees, fuel recovery fees, environmental recovery fees and administrative fees.

3. **Term of Agreement. .** This Agreement is effective for 12 months beginning on 6/19/2024 (the "Initial Term") and shall automatically renew for successive 12 month periods (each, a "Renewal Term"), unless written notice of non-renewal is delivered in accordance with Section 19 by one party to the other party at least 30 days before the expiration of the Initial Term or any Renewal Term.

Except for requests for bids that Generator must send to multiple parties under any Applicable Laws, Generator grants to Company the right to bid and/or compete for any future services sought by Generator, whether by means of competitive bids or otherwise, that are for services comparable to those provided under this Agreement.

COMPANY AND GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED IN THIS AGREEMENT, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE, AND ON THE REVERSE SIDE OF THIS PAGE. IN ADDITION, GENERATOR IS CERTIFYING THE TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS PAGE HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

Sal Deraki

SIGNATURE (AUTHORIZED REPRESENTATIVE)
Sal Deraki – Project Manager

NAME AND TITLE (PLEASE PRINT)

DATE: 06-20-23

COMPANY

Edward Antolin

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Edward Antolin MESE

NAME AND TITLE (PLEASE PRINT)

DATE: 06/20/2023

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; and/or (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. **Limited License to Enter.** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. **Charges and Payment.** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. **Termination/Suspension.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days notice to Generator.

11. **Personnel Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. **Indemnification.** Generator agrees to indemnify, defend and hold harmless Company, the legal entity owning and/or operating the Facility, their subsidiaries, affiliates and parent corporations, as applicable, and each of their respective officers, directors, lenders, employees, subcontractors and agents (collectively, the "Company Indemnified Parties") from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys' fees (collectively, "Losses") arising out of or related to (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. The indemnification and other obligations stated in this Section 12 shall survive the expiration and termination of this Agreement.

13. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party shall be liable for its failure to perform due to circumstances that are both not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party. If any of the circumstances provided for in the preceding sentence occur, including, without limitation, whether any federal, state or local court or governmental authority takes any action that would (a) close or restrict operations at the Facility; or (b) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, Company shall have the right to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice; provided, however, that Generator's payment and indemnification obligations shall survive such reduction, suspension or termination. Neither Party is required to settle any labor dispute against its own best judgment.

15. **Assignment; Performance of Services.** Generator may not assign, transfer, subcontract or otherwise vest in any other company, entity or person, in whole or in part, any of its rights or obligations under this Agreement without the prior written consent of Company, which Company may withhold in its sole discretion. Company may freely assign this Agreement or any of its rights or obligations thereunder, to any other company, entity or person, in its sole discretion. Additionally, Company may freely use any of its affiliates to provide the services and fulfill Company's obligations under this Agreement.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than as specifically set forth in this Agreement.

17. **Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

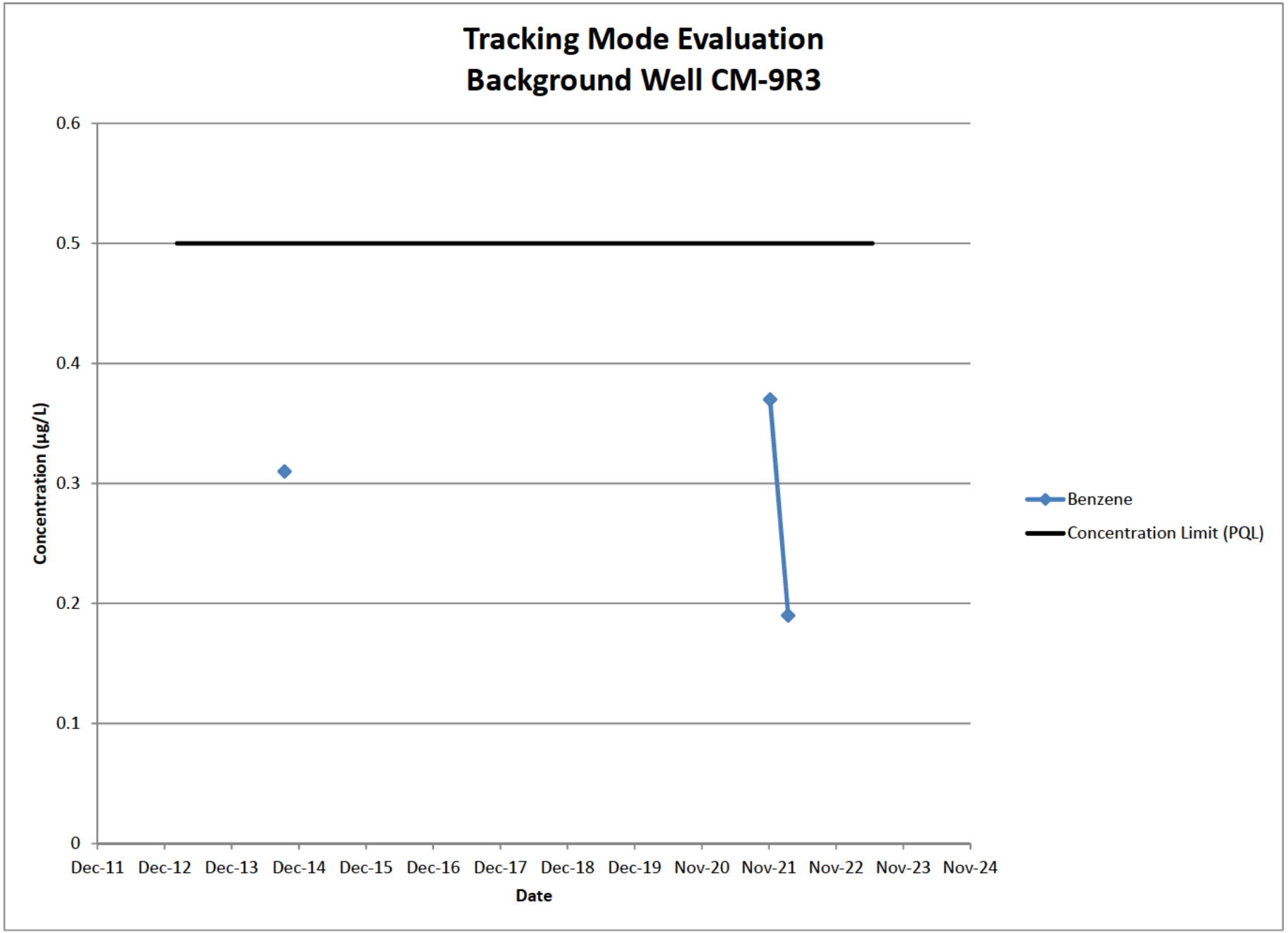
19. **Notices.** All notices required under this Agreement shall be considered as having been given upon being placed in the mail, certified postage prepaid, addressed to Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

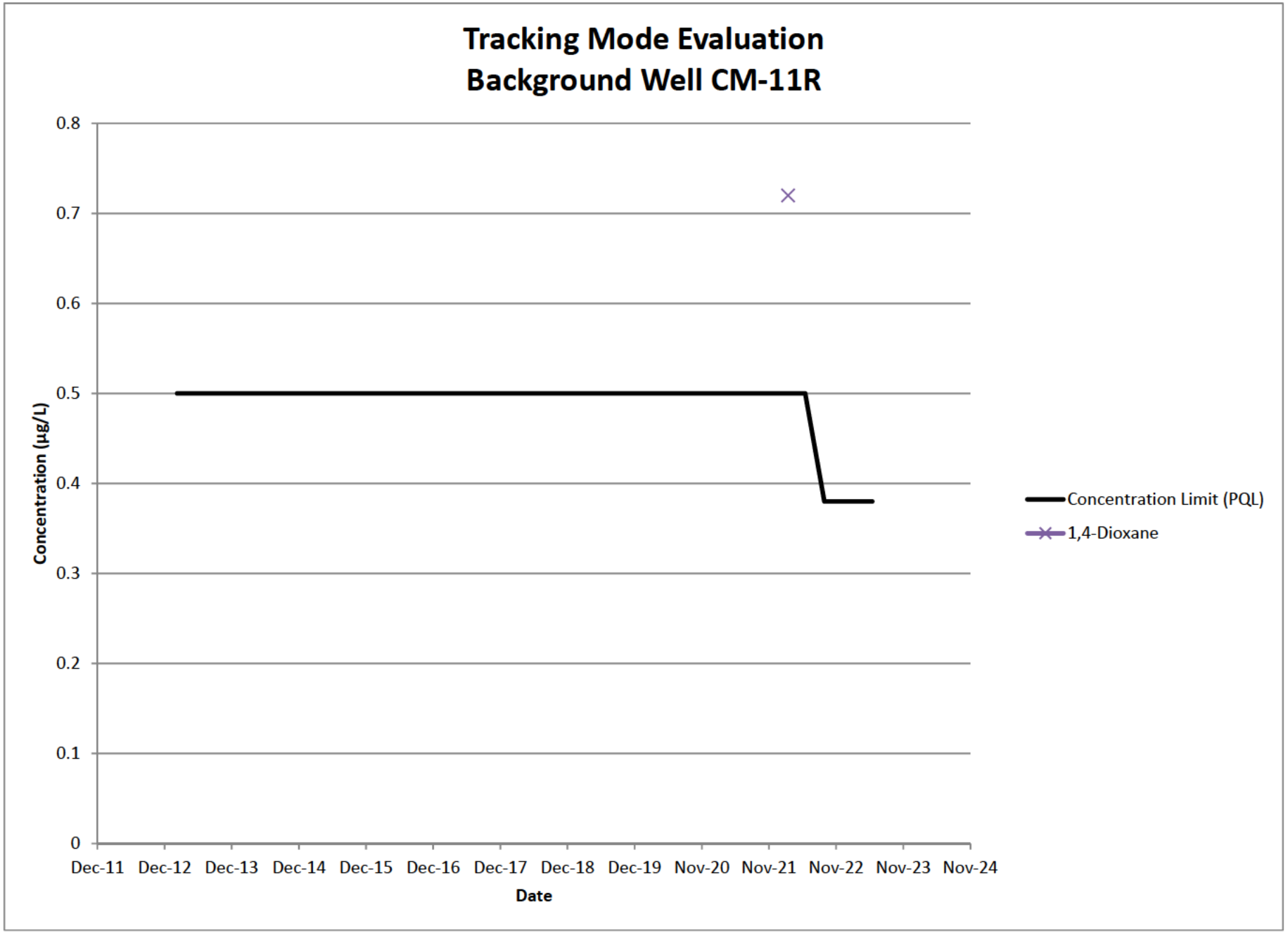
20. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement

APPENDIX G

TRACKING MODE TRENDS

Geo-Logic ASSOCIATES


Tracking Mode Evaluation
Background Well CM-9R3
0.6
0.5
0.4
0.3
0.2
0.1
0
Concentration (µg/L)
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Nov-22
Nov-23
Nov-24
Date
Benzene
Concentration Limit (PQL)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Background Well CM-11R
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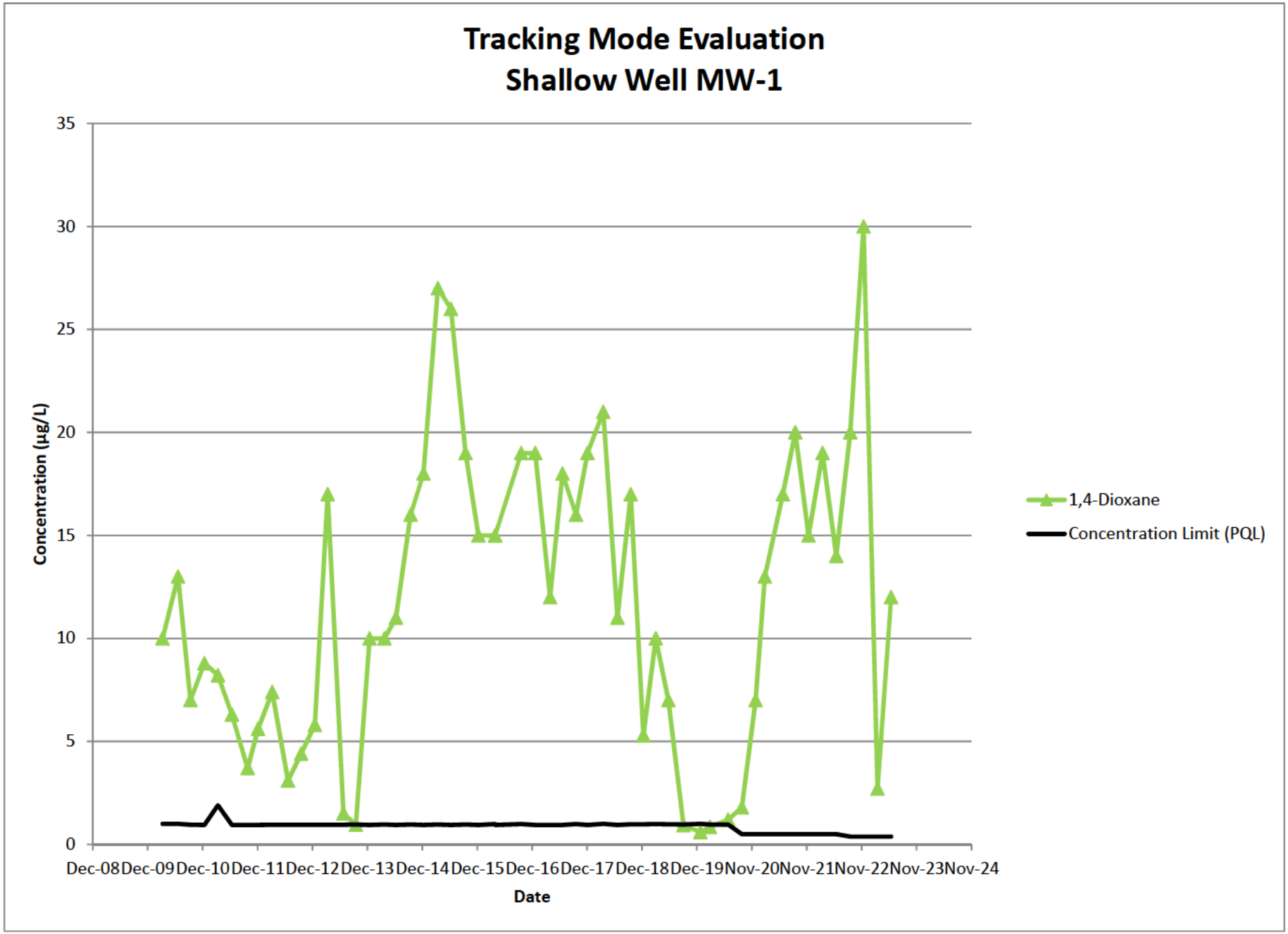
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Concentration (µg/L)
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Nov-22
Nov-23
Nov-24
Date
Concentration Limit (PQL)
1,4-Dioxane


Tracking Mode Evaluation
Shallow Well MW-1
Concentration (µg/L)
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30
25
20
15
10
5
0
Dec-08
Dec-09
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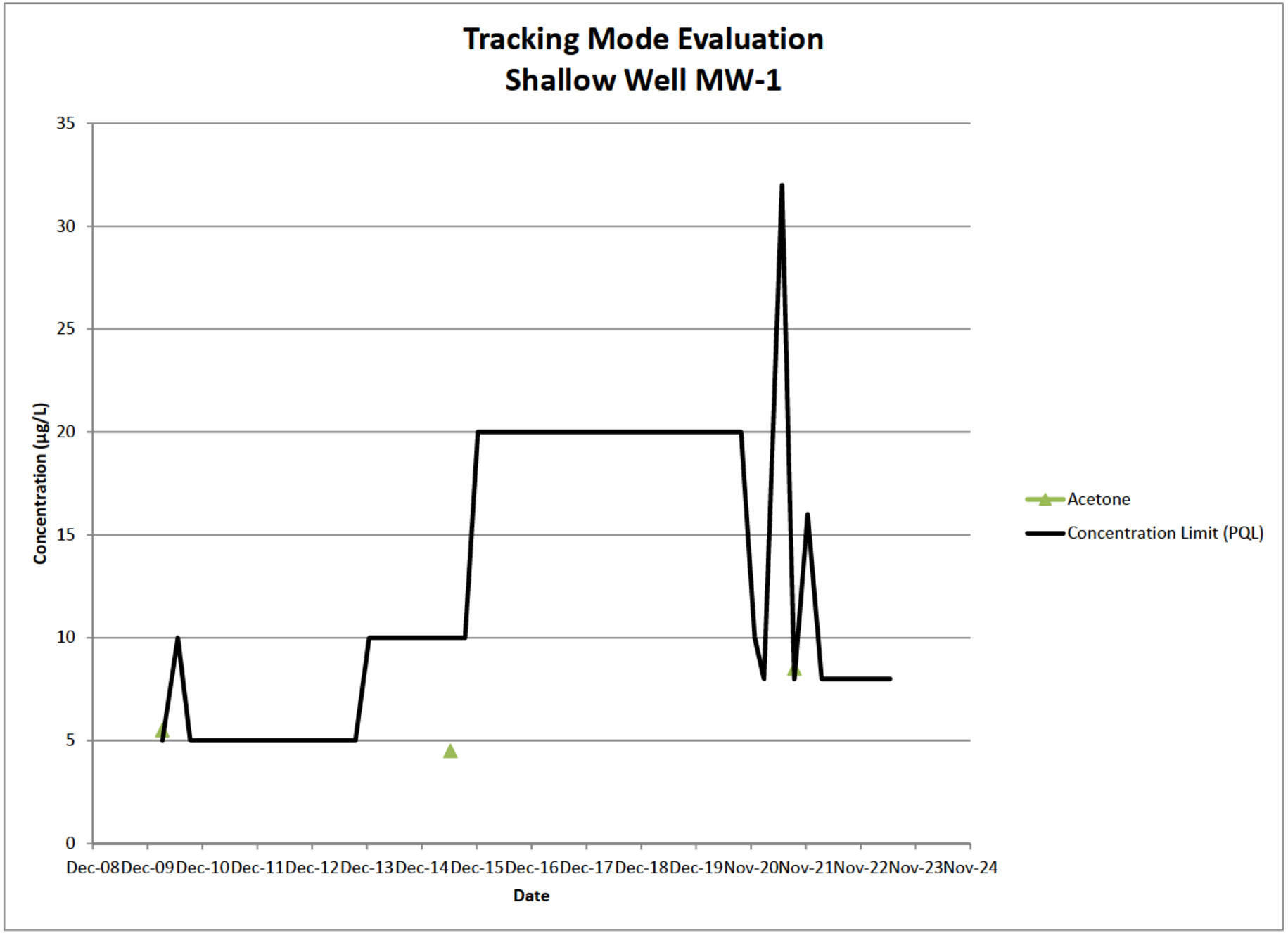
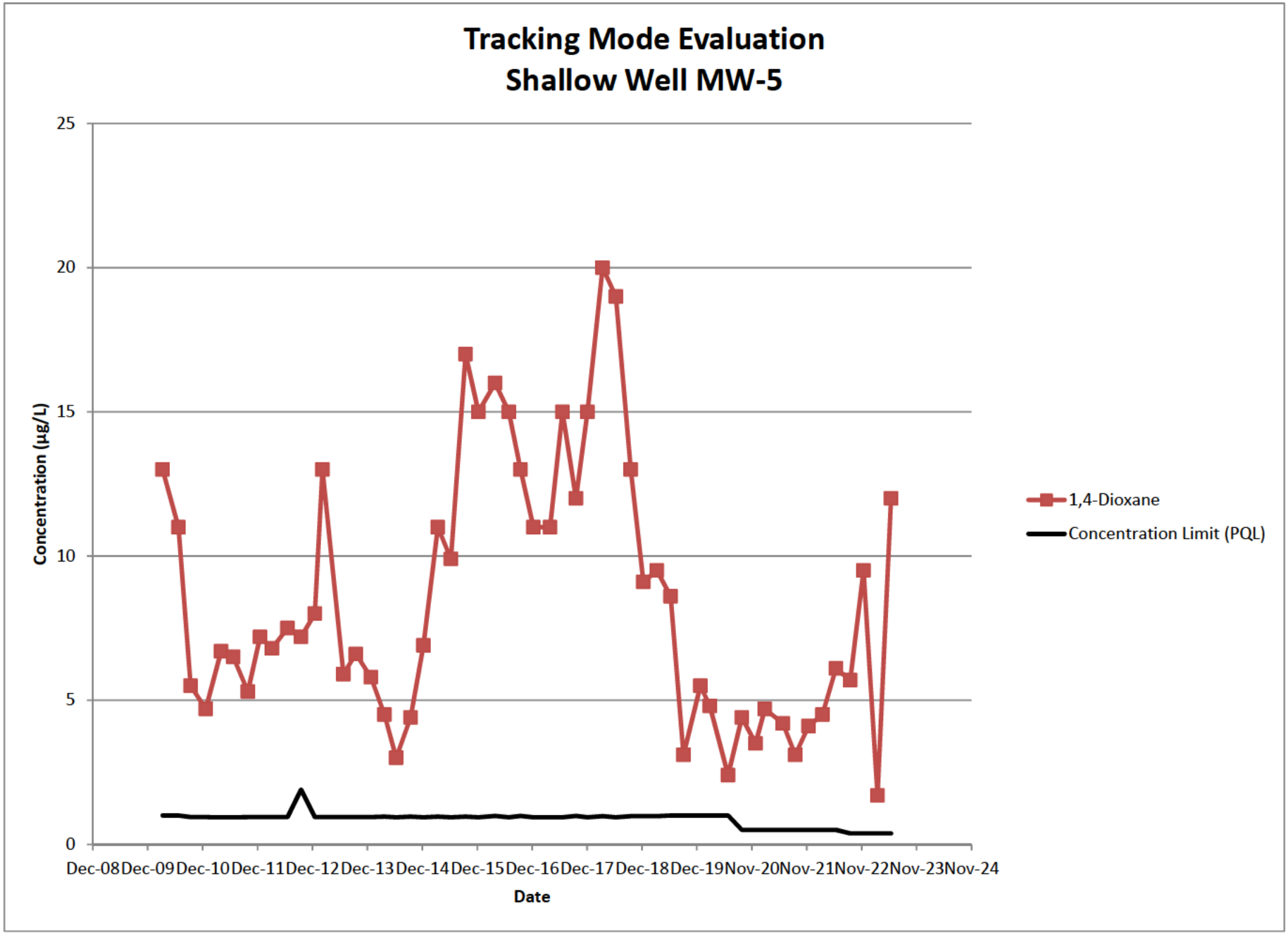
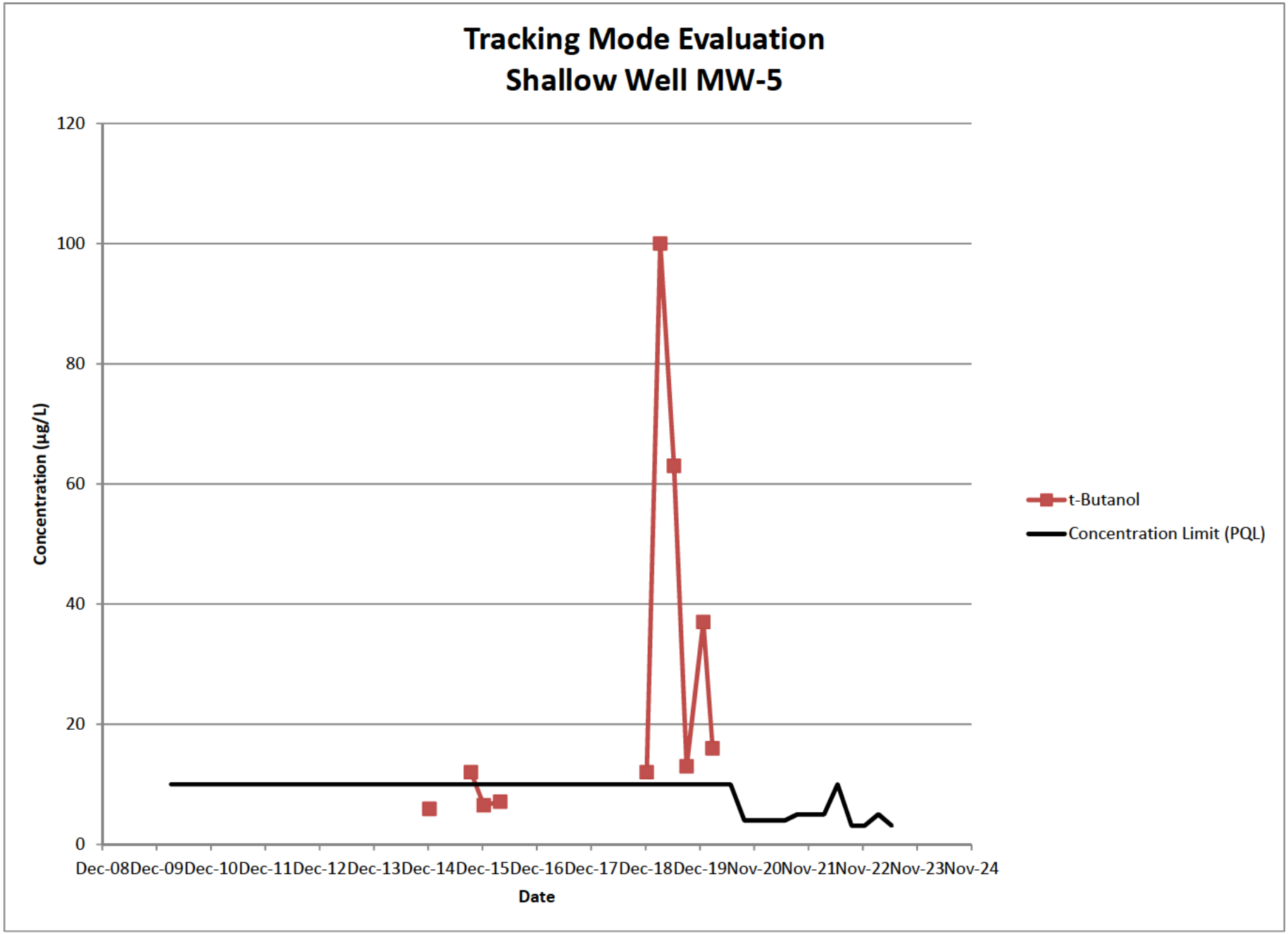
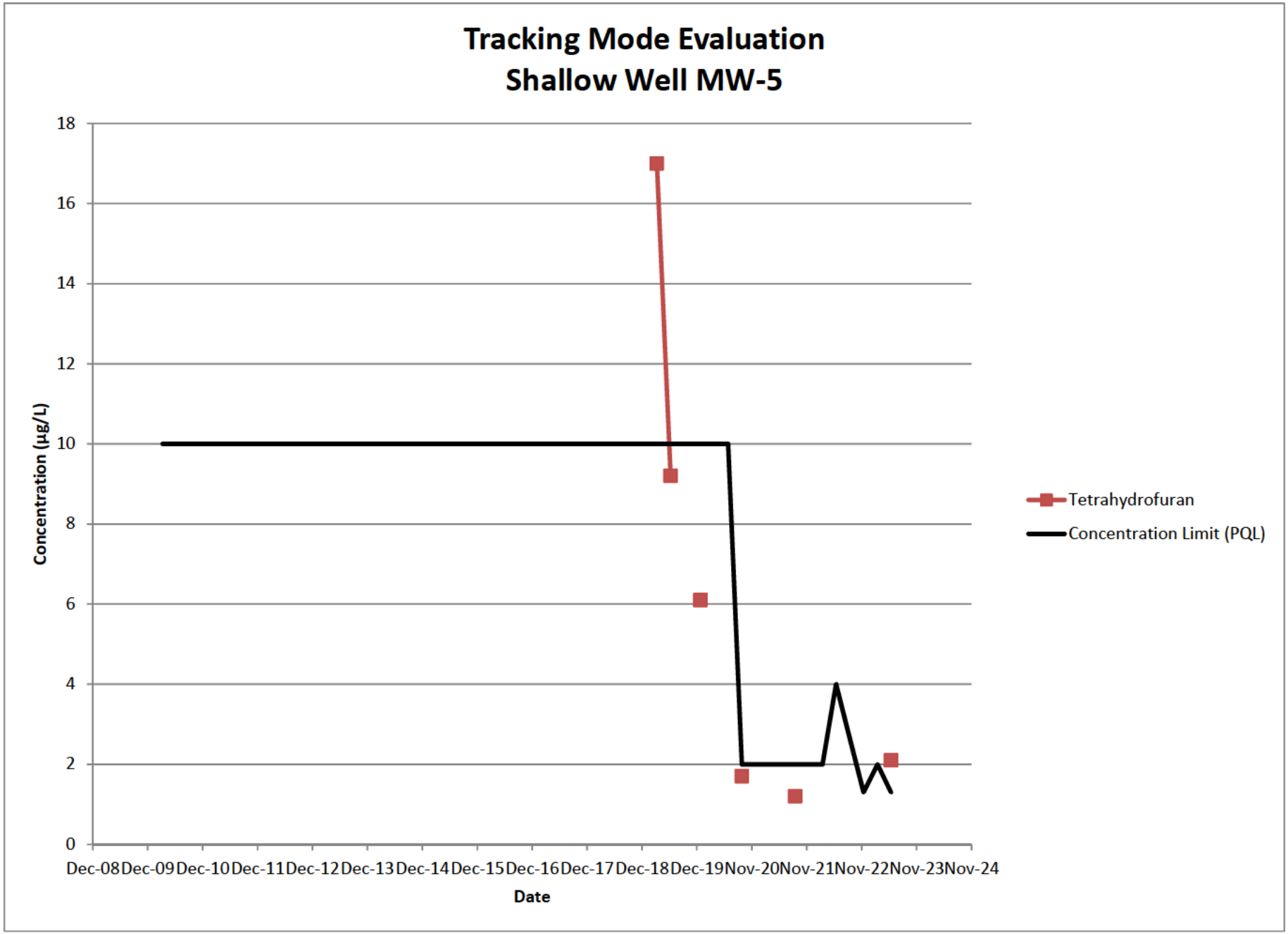
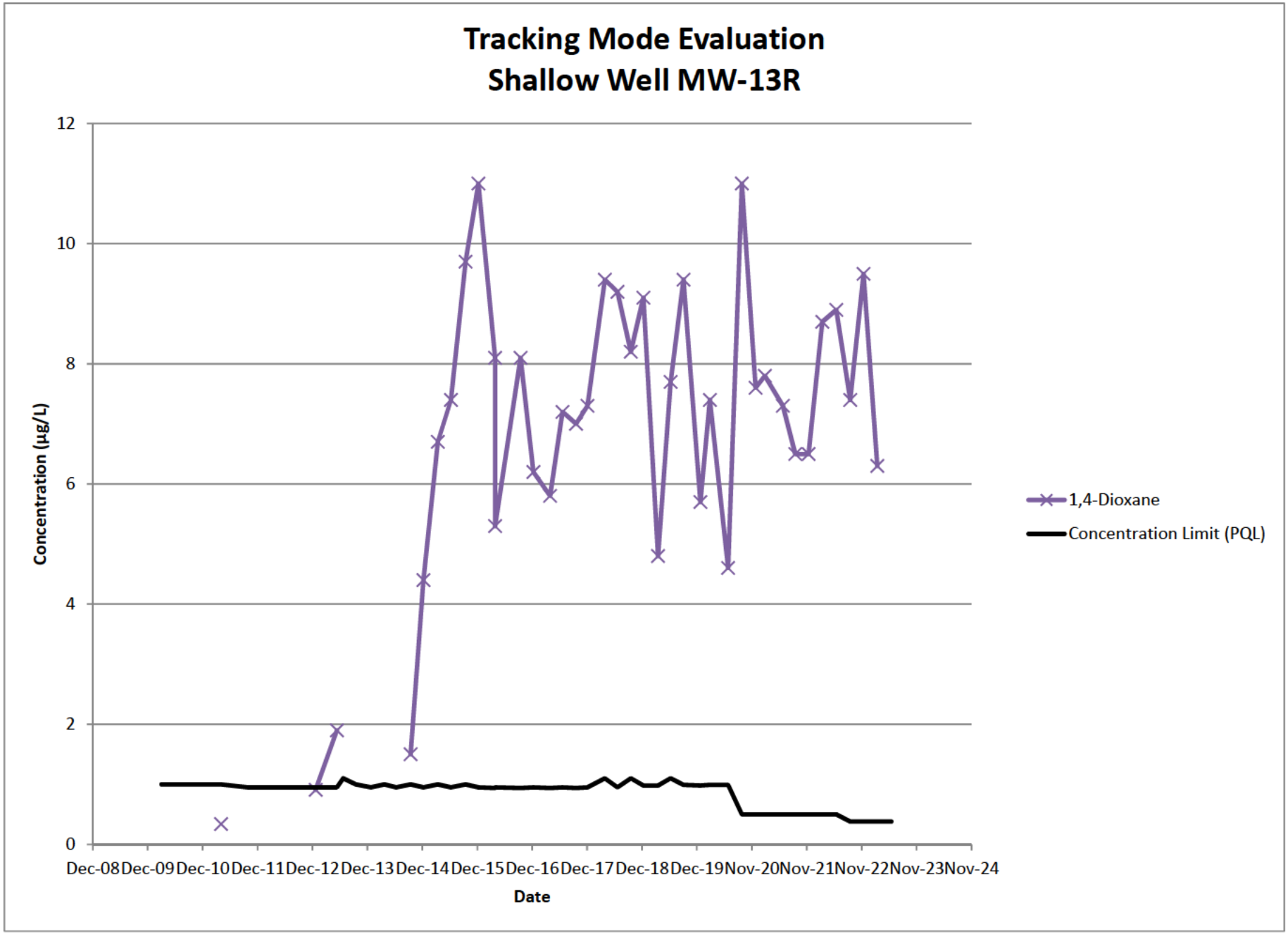
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Nov-22
Nov-23
Nov-24
Date
1,4-Dioxane
Concentration Limit (PQL)

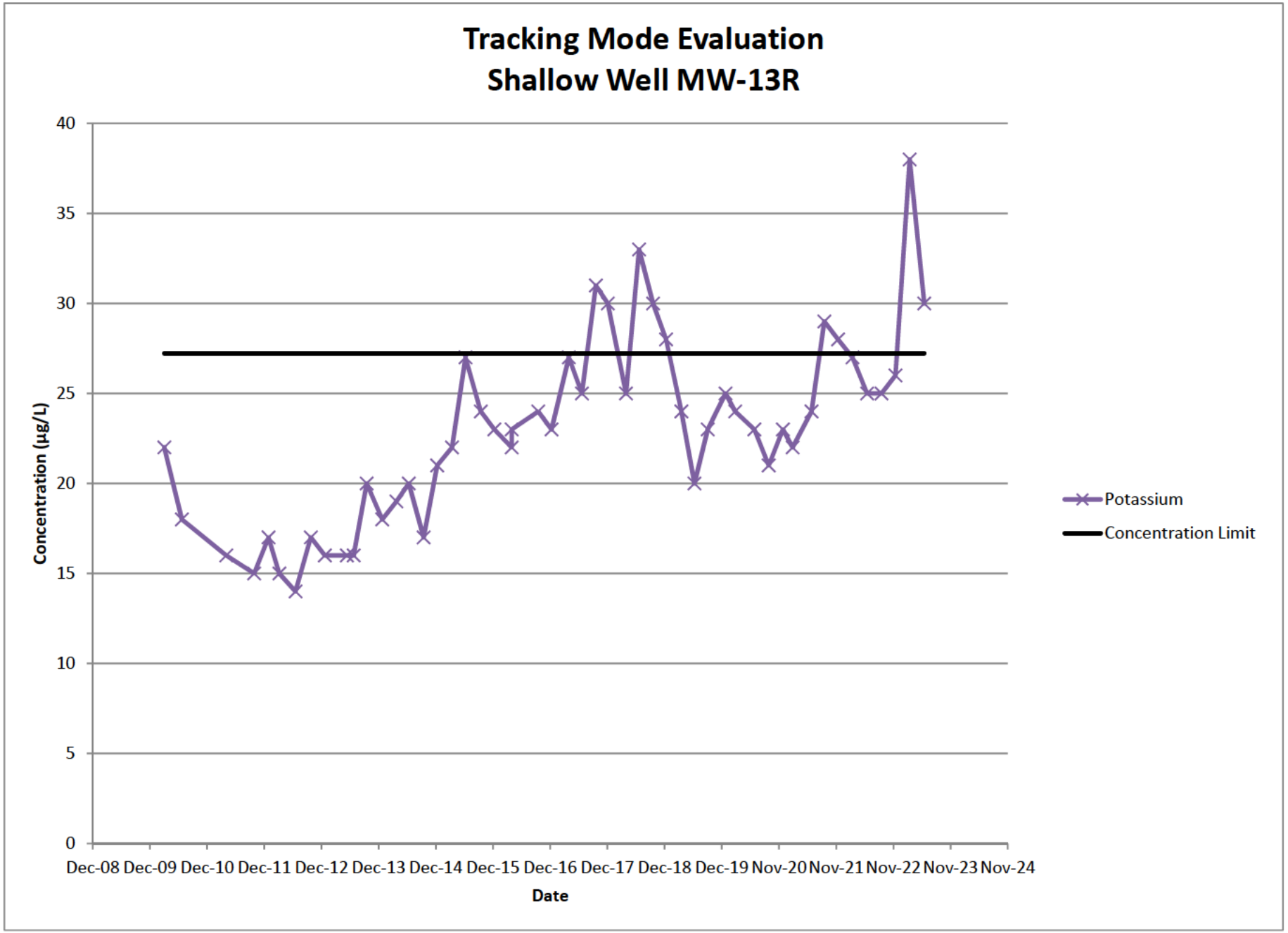

Tracking Mode Evaluation
Shallow Well MW-1
Concentration (µg/L)
35
30
25
20
15
10
5
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Nov-22
Nov-23
Nov-24
Date
Acetone
Concentration Limit (PQL)

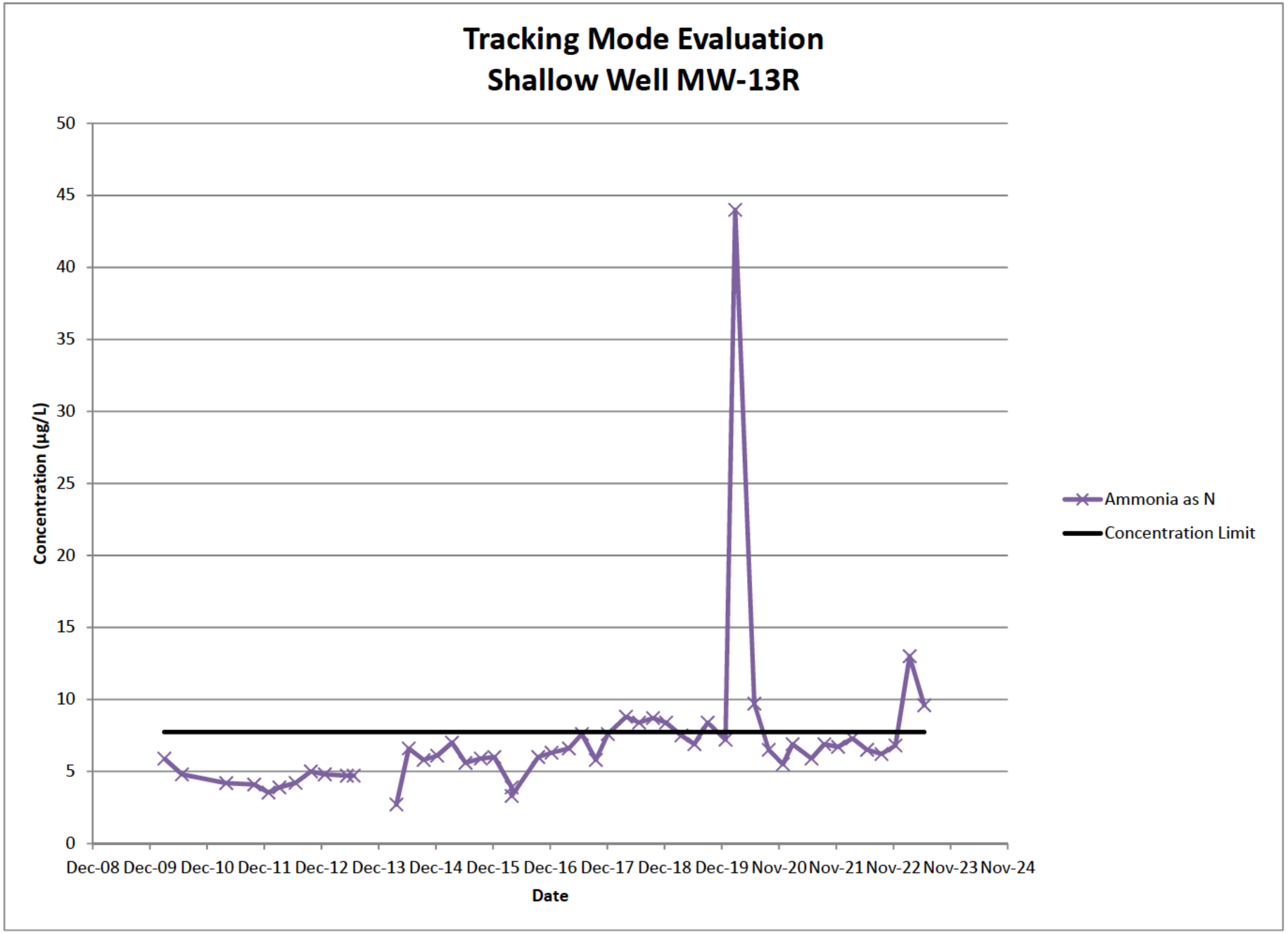

Tracking Mode Evaluation
Shallow Well MW-5
Concentration (µg/L)
25
20
15
10
5
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Nov-22
Nov-23
Nov-24
Date
1,4-Dioxane
Concentration Limit (PQL)


Tracking Mode Evaluation
Shallow Well MW-5
120
100
80
60
40
20
0
Concentration (µg/L)
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Nov-22
Nov-23
Nov-24
Date
t-Butanol
Concentration Limit (PQL)


Tracking Mode Evaluation
Shallow Well MW-5
Concentration (µg/L)
18
16
14
12
10
8
6
4
2
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Nov-22
Nov-23
Nov-24
Date
Tetrahydrofuran
Concentration Limit (PQL)


Tracking Mode Evaluation
Shallow Well MW-13R
Concentration (µg/L)
12
10
8
6
4
2
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Nov-22
Nov-23
Nov-24
Date
1,4-Dioxane
Concentration Limit (PQL)


Tracking Mode Evaluation
Shallow Well MW-13R
Concentration (µg/L)
40
35
30
25
20
15
10
5
0
Dec-08 Dec-09 Dec-10 Dec-11 Dec-12 Dec-13 Dec-14 Dec-15 Dec-16 Dec-17 Dec-18 Dec-19 Nov-20 Nov-21 Nov-22 Nov-23 Nov-24
Date
Potassium
Concentration Limit


Tracking Mode Evaluation
Shallow Well MW-13R
Concentration (µg/L)
50
45
40
35
30
25
20
15
10
5
0
Dec-08 Dec-09 Dec-10 Dec-11 Dec-12 Dec-13 Dec-14 Dec-15 Dec-16 Dec-17 Dec-18 Dec-19 Nov-20 Nov-21 Nov-22 Nov-23 Nov-24
Date
Ammonia as N
Concentration Limit